Index of Mosses 1990-1992

REF
QK1
.M833
1994
v.50
c.3

Missouri Botanical Garden

Index of Mosses 1990-1992

The cover and title page illustration is *Fissidens cylindrothecus* Pursell & Aguirre. See Novon 1: 197. 1991.

REF
QK1
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1994
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c.3

Index of Mosses

a catalog of the names and citations for new taxa, combinations, and names for mosses published during the years 1990 through 1992 with citations of previously published basionyms and replaced names together with a bibliography of the publications in which these nova appeared.

Marshall R. Crosby
Robert E. Magill

Missouri
Botanical
Garden

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Introduction

The *Index of Mosses, 1990–1992* (*IOM 90–92*), contains nova published between 1 January 1990 and 31 December 1992. In addition, nova that should have appeared in our *Index of Mosses, 1963–1989,* and valid nova that should have appeared in *Index Muscorum* are included. Finally, there are some corrections to *Index of Mosses, 1963–1989*, and *Index Muscorum*.

IOM 90–92 follows the style of the *Index of Mosses, 1963–1989*, which appeared in 1992. Users should read its introduction for details about content and format. Some changes have been made in the content from *Index of Mosses, 1963–1989,* for *IOM 90–92*.

The dagger (†) replaces the plus sign (+) to indicate fossils. The asterisk (*) continues to indicate that a name is unacceptable under some provision of the *Code*, with the reason for its unacceptability explained in an annotation, also preceded by an asterisk, to the name.

Protologue locality data are given more fully than in the *Index of Mosses, 1963–1989*. Collectors' names are given as they appear in the protologue, rather than being reduced to only the family name. These changes to recording information were introduced in mid-1993, and records entered earlier have not been updated.

In order to place nova in their full bibliographic context, those published during 1990 through 1992 are referenced to the article or book in which they appeared. These articles and books are listed in the Literature Cited, pages 75–83, immediately after the index itself. This means that the user has immediate access to the exact article citation or book citation in which the novon was published, which should simplify searches through reprints, journals, books, libraries, etc., for full descriptions (protologues). Full journal and book titles are used in the Literature Cited.

The full lists of authors' names and publications' names have been dropped. Most of the names used in *IOM 90–92* appear in the full lists in the *Index of Mosses, 1963–1989*. *IOM 90–92* lists only authors and publications not previously in *Index of Mosses, 1963–1989*. See pages 85 and 87, respectively.

As with *Index of Mosses, 1963–1989*, *IOM 90–92* is based on information contained in a database developed and maintained at the Missouri Botanical Garden. *IOM 90–92* is a nomenclator, not reflecting taxonomic acceptance or synonymy. We will begin to provide that information in a state-of-the-knowledge fashion in the World Checklist of Mosses. An initial list is targeted for completion by the end of 1994.

ACKNOWLEDGEMENTS: We thank our colleagues at MO, especially Bruce Allen, He Si, and Barb Mack, for helping prepare the *Index of Mosses, 1990–1992*. William R. Buck, Alan Crundwell, Hironori Deguchi, Claudio Delgadillo M., Johannes Enroth, Nadya Konstantinova, Timo Koponen, Ryszard Ochyra, and Ronald A. Pursell assisted by pointing out previously unindexed names, making other corrections, and providing other information that appears in *IOM 90–92*. The project is endorsed by the International Association of Bryologists.

*ACANTHOCLADIUM Mitten, 1883.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Acanthocladium* F. Müller, 1861.
Correct name: *Wijkia* H. Crum, 1971.
*A. **papillatum*** Zanten, Nova Guinea, Bot. 10(16): 325. pl. 29: f. 1. 1964.
Other use: *Papillidiopsis papillata* (Zanten) W. R. Buck & B. C. Tan, 1989 [1990].
*A. **scabrifolium*** Brotherus in H. A. Möller, Hedwigia 60: 326. illustration. 1919.
Other use: *Trichosteleum scabrifolium* (Brotherus in H. A. Möller) W. R. Buck & B. C. Tan, 1989 [1990].
ACAULON C. Müller, 1847.
*A. **fontiquerianum*** C. Casas & Sérgio, Cryptog. Bryol. Lichénol. 11: 61. f. 1–2. 1990. [See Casas, C. & C. Sérgio, 1990.]
Type: Spain. Almería: Cabo de Gata, Umbría Cambronero, UTM 30S WF77, 100 m, *Casas s.n.* 1972.
Holotype: BCB; isotype: LISU.
ACROPORIUM Mitten, 1868.
*A. **complanatum*** Dixon, Bull. Torrey Bot. Club 51: 256. pl. 4: f. 15. 1924.
Other use: *Papillidiopsis complanata* (Dixon) W. R. Buck & B. C. Tan, 1989 [1990].
*A. **flagelliferum*** Sakurai, Bot. Mag. (Tokyo) 48: 391. 1934.
Replaced name: *Trichosteleum flagelliferum* Sakurai, 1932.
Blocking name: *Trichosteleum flagelliferum* Brotherus, 1895.
Other use: *Isocladiella flagellifera* (Sakurai) Lin Shan-hsiung, 1986.
Note: new name, based on adoption of earlier epithet (Article 72.Note1).
*A. **intricatum*** Thériot, Ann. Bryol. 7: 159. 1934.
Other use: *Trichosteleum intricatum* (Thériot) Florschütz-de Waard, 1990.
*A. **strepsiphyllum*** (Montagne) B. C. Tan in Touw, J. Hattori Bot. Lab. 71: 353. 1992. [See Touw, A., 1992.]
Basionym: *Hypnum strepsiphyllum* Montagne, 1844.
*A. **surculare*** Dixon, Bull. Torrey Bot. Club 51: 258. pl. 4. f. 11. 1924.
Other use: *Isocladiella surcularis* (Dixon) B. C. Tan & Mohamed, 1990.
AEROBRYIDIUM Fleischer ex Brotherus, 1906.
*A. **fuscescens*** E. B. Bartram, Svensk Bot. Tidskr. 47(3): 400. 1953.
Other use: *Aerobryopsis fuscescens* (E. B. Bartram) Menzel, 1992.
AEROBRYOPSIS Fleischer, 1905.
*A. **crispifolia*** (Brotherus & Geheeb) Menzel, Willdenowia 22: 174. 1992. [See Menzel, M., 1992c.]
Basionym: *Papillaria crispifolia* Brotherus & Geheeb, 1898.
*A. **fuscescens*** (E. B. Bartram) Menzel, Willdenowia 22: 175. 1992. [See Menzel, M., 1992c.]
Basionym: *Aerobryidium fuscescens* E. B. Bartram, 1953.
AEROLINDIGIA Menzel, Nova Hedwigia 52: 321. 1991. [See Menzel, M., 1991.]
Type: *Pilotrichum capillaceum* Hornschuch in Martius, *A. capillacea* (Hornschuch in Martius) Menzel, holotype.
Original placement: Brachytheciaceae.
*A. **capillacea*** (Hornschuch in C. Martius) Menzel, Nova Hedwigia 52: 322. 1991. [See Menzel, M., 1991.]
Basionym: *Pilotrichum capillaceum* Hornschuch in C. Martius, 1840.

AMBLYSTEGIUM W. P. Schimper in B.S.G., 1853.

*A. **bandaiense*** (Brotherus & Paris ex Takaki) Noguchi, Ill. Moss Fl. Japan 4: 896. 1991. [See Noguchi, A., 1991.]
Basionym: *Rhynchostegiella bandaiensis* Brotherus & Paris ex Takaki, 1943.

*A. **calcareum*** (Kanda) Noguchi, Ill. Moss Fl. Japan 4: 897. 1991. [See Noguchi, A., 1991.]
Basionym: *Hygroamblystegium calcareum* Kanda, 1975 [1976].

*A. **riparium*** fo. ***bifidinervium*** M. F. Boiko, Ukrajins'k. Bot. Žurn. 47(1): 94. 1990. [See Boiko, M. F., 1990.]
Type: Ukraine. Regio Chersonica, districtus Golopristanica, praedium saltuarium Burcutense, *Boiko s.n.* 1983. Holotype: KHER.

*A. **uematsui*** Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 35. 1921.
Other use: *Brachythecium pseudouematsui* Noguchi, 1991.

AMPHIDIUM W. P. Schimper, 1856, conserved name.

*A. **tortuosum*** (Hornschuch) Cufodontis, Oesterr. Bot. Z. 98: 221. 1951.
Basionym: *Syrrhopodon tortuosus* Hornschuch, 1841.
Note: not in *Index Muscorum*; the combination H. Robinson, Smithsonian Contr. Bot. 27: 20. 1975, cited in *Index of Mosses, 1963–1989*, is redundant.

ANDREAEA Hedwig, 1801.

*A. **acuminata*** Mitten in J. D. Hooker & Wilson, Fl. Tasman. 2: 161. pl. 171: f. 2. 1859.
Other use: *Andreaea acutifolia* subsp. *acuminata* (Mitten in J. D. Hooker & Wilson) Vitt, 1980.

*A. **acutifolia*** subsp. ***acuminata*** (Mitten in J. D. Hooker & Wilson) Vitt, New Zealand J. Bot. 18: 374. 1980.
Basionym: *Andreaea acuminata* Mitten in J. D. Hooker & Wilson, 1859.
Note: not in *Index of Mosses, 1963–1989*.

ANICTANGIUM Hedwig, 1801, rejected name.

*A. **flaccidum*** De Notaris, Mem. Reale Accad. Sci. Torino 39: 254. 1836.
Other use: *Schistidium flaccidum* (De Notaris) Ochyra, 1989.

ANOECTANGIUM Schwägrichen, 1811, conserved name.

*A. **sikkimense*** Aziz & Vohra, Bull. Bot. Surv. India 30: 187. f. 1–14. 1988 [1990]. [See Aziz, M. N. & J. N. Vohra, 1988 [1990].]
Type: India. Sikkim Himalaya, Sinchul, *Kurz 2095*. Holotype: CAL.
Other indicated distribution: Nepal.

ANOMODON W. J. Hooker & Taylor, 1818.

*A. **acutifolius*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 126. 1859.
Other use: *Bryonorrisia acutifolia* (Mitten) Enroth, 1991.

*A. **lagoensis*** Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 2: 283. 1870.
Other use: *Rauiella lagoensis* (Hampe) W. R. Buck, 1991.

ARCHBOLDIELLA E. B. Bartram, 1942.

A. **nymaniana* (Fleischer) H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 14: 402. 1990. [See Akiyama, H., 1990a.]
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Distichophyllidium nymanianum* Fleischer, 1908.
Note: the author recognized both the genus *Archboldiella* E. B. Bartram (1942) and the genus *Distichophyllidium* Fleischer (1908). He considered the type of *Archboldiella*, *A. pilifera* E. B. Bartram, and that of *Distichophyllidium*, *D. nymanianum* Fleischer, to be taxonomic synonyms.

ARCHBOLDIELLA, continued.
But he chose to use the former generic name, placing the type of the earlier generic name in it. Hence the combination is illegitimate under Article 63.1.

†**ARISTOVIA** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 157. 1990. [See Ignatov, M. S., 1990.]
Type: *A. subcordata* Ignatov, holotype.

†*A.* ***microcellulata*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 159. f. 9; pl. 3: f. 32–33. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/322-10-22*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

†*A.* ***subcordata*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 157. f. 7–8; pl. 3: 30–31, 34–35. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/K-5-17*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

†**ARVILDIA** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 150. 1990. [See Ignatov, M. S., 1990.]
Type: *A. elenae* Ignatov, holotype.
Original placement: perhaps Trichostomaceae.

†*A.* ***elenae*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 150. f. 1–4; pl. 1: f. 1–15; pl. 2: f. 16–25. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/K-9-1*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

†*A.* ***obtusifolia*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 155. f. 5; pl. 2: f. 26–27. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/337-5-15*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

ASTOMIOPSIS C. Müller, 1882.

A. × ***altivallis*** Delgadillo M., Bryologist 92: 227. f. 2. 1989.
Type: Mexico. México: Llano Grande, 14 km E of San Rafael, 3,560 m, 19°12′N, 98°39′W, *Delgadillo 5141*. Holotype: MEXU; isotypes ENCB, NY. Paratypes cited.
Note: not in *Index of Mosses, 1963–1989*.

ASTOMUM Hampe, 1837.

A. platystegium Dixon, J. Bot. 80: 5. 1942.
Other use: *Weissia platystegia* (Dixon) A. Eddy, n.d. [1990].

ATRACTYLOCARPUS Mitten, 1869, conserved name.

A. novoguineensis (Brotherus & Geheeb) Norris & T. Koponen, Acta Bot. Fenn. 139: 21. 1990. [See Norris, D. H. & T. Koponen, 1990.]

Basionym: *Dicranodontium novoguineense* Brotherus & Geheeb, 1895.

BARBELLA Fleischer ex Brotherus in Engler & Prantl, 1906.

B. pilifera Brotherus & M. Yasuda, Rev. Bryol. 53: 2. 1926.

Other use: *Neobarbella comes* var. *pilifera* (Brotherus & M. Yasuda) B. C. Tan, He Si & Isoviita, 1992.

BARBULA Hedwig, 1801, conserved name.

B. imbricata Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 174. 1991. [See Herrnstadt, I., C. C. Heyn & M. R. Crosby, 1991.]

Replaced name: *Didymodon luridus* Hornschuch in Sprengel, 1827.

Blocking name: *Barbula lurida* Hornschuch, 1840.

B. jacksharpii H. Crum, Bryologist 87: 204. f. 1–4. 1984.

Other use: *Gymnostomum jacksharpii* (H. Crum) B. H. Allen, 1990.

B. meidensis Cufodontis, Oesterr. Bot. Z. 98: 225. 1951.

Replaced name: *Trichostomum fontanum* C. Müller, 1876.

Blocking name: *Barbula fontana* C. Müller in Neumayer, 1890.

Note: not in *Index Muscorum*.

B. recurvirostris var. ***latinervia*** Holmen, Meddel. Grønland 163(2): 37. 1960.

Other use: *Bryoerythrophyllum recurvirostre* var. *latinervium* (Holmen) B. M. Murray, 1992.

B. ruralis var. ***hirsuta*** Venturi, Rev. Bryol. 17: 52. 1890.

Other use: *Tortula hirsuta* (Venturi) Lazarenko in Lazarenko et al., 1968.

B. sinensis C. Müller, Nuovo Giorn. Bot. Ital., n. s., 3: 100. 1896.

Other use: *Syntrichia sinensis* (C. Müller) Ochyra, 1992.

B. subduriuscula C. Müller, Linnaea 38: 554. 1874.

Other use: *Chionoloma subduriuscula* (C. Müller) Menzel, 1992.

BARTRAMIA Hedwig, 1801, conserved name.

B. oederi var. ***alpina*** Schwägrichen, Sp. Musc. Suppl. 1(2): 50. 1816.

Other use: *Plagiopus oederianus* var. *alpinus* (Schwägrichen) Ochyra, 1988.

Note: not in *Index of Mosses, 1963–1989*.

BEEVERIA Fife, Contr. Univ. Michigan Herb. 18: 142. 1992. [See Fife, A. J., 1992.]

Type: *Pterygophyllum distichophylloides* Brotherus & Dixon in Dixon, *B. distichophylloides* (Brotherus & Dixon in Dixon) Fife, holotype.

Original placement: Hookeriaceae.

B. distichophylloides (Brotherus & Dixon in Dixon) Fife, Contr. Univ. Michigan Herb. 18: 142. 1992. [See Fife, A. J., 1992.]

Basionym: *Pterygophyllum distichophylloides* Brotherus & Dixon in Dixon, 1915.

BLINDIA Bruch & W. P. Schimper in B.S.G., 1846.

B. skottsbergii Cardot, Bull. Herb. Boissier, sér. 2, 6: 4. 1906.

Other use: *Chorisodontium skottsbergii* (Cardot) Frahm ex Bartlett & Vitt, 1986.

BRACHYDONTIUM Fürnrohr, 1827.

B. notorogenes W. R. Buck & Schäfer-Verwimp, Bryologist 95: 340. f. 1–18. 1992. [See Buck, W. R. & A. Schäfer-Verwimp, 1992.]
Type: Brazil. Rio de Janeiro: National park Itatiaia, Blackhalden am Aufstieg zu den Agulhas Negras, 2,700 m, *Schäfer-Verwimp & Verwimp 12760*. Jun 1990. Holotype: NY; isotypes: G, SP, Z, herb. Schäfer-Verwimp.

B. olsonii F. D. Bowers & B. H. Allen, Bryologist 93: 346. f. 1–9. 1990. [See Bowers, F. D. & B. H. Allen, 1990.]
Type: Honduras. Comayagua: 12 km SW of Siguyatepeque, 14°32′N, 87°49′W, *Olson 84-66E*. Holotype: MO.

BRACHYTHECIUM W. P. Schimper in B.S.G., 1853.

B. cirriphylloides McFarland, Phytologia 72: 253. 1992. [See McFarland, K. D., 1992a.]
Type: "Mexico. México: Popocatepetl, on slopes ca. 2,900 m.s.m. March 4, 1932." *H. Froferstrom & E. Hultén s.n.* 4 Mar 1932. Holotype: MICH; isotypes: TENN, US. Other indicated distribution: Colombia, Guatemala, Venezuela. No paratypes cited.

B. fontanum Fife, New Zealand J. Bot. 28: 126. f. 1–2. 1990. [See Fife, A. J., 1990.]
Type: New Zealand. South Island: Canterbury, valley of Broad Stream above Cora Lynn station, 900 m, 43°03′S, 171°38′E, *Fife 9251*. Holotype: CHR; isotypes: BA, MICH, NY, NSW, WELT. Paratypes cited.

B. mieheanum Ochyra, Polish Bot. Stud. 1: 35. f. 1–38. 1990. [See Ochyra, R., 1990a.]
Type: Nepal. Central Himalayas, N flank of Ganja La, 28°10′N, 85°20′E, 4,830 m, *Miehe & Miehe 6122*. Holotype: KRAM.

****B. percurrens*** Hedenäs, Bryoph. Biblioth. 44: 92. 1992. [See Hedenäs, L., 1992b.]
*invalid, no Latin description (Article 36.1).

B. plumosum var. ***laxoalare*** Herzog, Repert. Spec. Nov. Regni Veg. Beih. 108: 11. 1938.
Type: Afghanistan. "Afgh., Zentral-Nuristan: Wama, auf überrieselten Steinen, 1,380 m," *Collector not indicated*. Date not indicated. Herbarium not indicated.
Note: not in *Index Muscorum*.

B. polyoicum (Thériot) McFarland, Phytologia 72: 256. 1992. [See McFarland, K. D., 1992b.]
Basionym: *Brachythecium salebrosum* var. *polyoicum* Thériot, 1931.

B. pseudouematsui Noguchi, Ill. Moss Fl. Japan 4: 974. 1991. [See Noguchi, A., 1991.]
Replaced name: *Amblystegium uematsui* Brotherus, 1921.
Blocking name: *Brachythecium uematsui* Brotherus in Cardot, 1911.

****B. rutabulum*** var. ***atlanticum*** Hedenäs, Bryoph. Biblioth. 44: 96. 1992. [See Hedenäs, L., 1992b.]
*invalid, no Latin description (Article 36.1).

B. salebrosum var. ***polyoicum*** Thériot, Smithsonian Misc. Collect. 85(4): 36. 1931.
Other use: *Brachythecium polyoicum* (Thériot) McFarland, 1992.

B. subpilosum var. ***angustifolium*** Allison, Trans. Roy. Soc. New Zealand, Bot. 88: 9. 1960.
Type: New Zealand. Southern base of Flagstaff Hill, Dunedin, *A[llison] s.n.* 1955. Holotype: herb. Allison; isotype: herb. Sainsbury.
Note: not in *Index Muscorum*.

BRAUNIA Bruch & W. P. Schimper in B.S.G., 1846.

B. nephelogenes Luna & W. R. Buck, Bryologist 94: 401. f. 1–9. 1991. [See Luna, E. de, & W. R. Buck, 1991.]
Type: Equador. Cotopaxi: On Quevedo-Latacunga road, ca. 0°55′S, 78°55′W, 3,600 m, *De Luna 1934*. Holotype: NY; isotypes: DUKE, MO, QCA, US, XAL. Other indicated distribution: Bolivia.
Original placement: sect. *Macromidium*.

BREIDLERIA Loeske, 1910.

B. erectiuscula (Sullivant & Lesquereux) Hedenäs, Lindbergia 16: 167. 1990 [1992]. [See Hedenäs, L., 1990 [1992]b.]
Basionym: *Hypnum erectiusculum* Sullivant & Lesquereux, 1859.

BRUCHIA Schwägrichen, 1824.

B. paricutinensis Delgadillo M. & Cárdenas-Soriano, Bryologist 94: 294. f. 1–8. 1991. [See Delgadillo M., C. & A. Cárdenas S., 1991.]
Type: Mexico. Michoacán: Angahuán, NE del Volcán Paricutín, 19°34′N, 102°14′W, 2,290 m, *Delgadillo 5117*. Holotype: MEXU; isotype: NY. Paratypes cited.

BRYOERYTHROPHYLLUM Chen Pan-chieh, 1941.

B. recurvirostre var. ***latinervium*** (Holmen) B. M. Murray, Bryobrothera 1: 14. 1992. [See Murray, B. M., 1992.]
Basionym: *Barbula recurvirostris* var. *latinervia* Holmen, 1960.

BRYOHUMBERTIA Potier de la Varde & Thériot, 1940.

B. filifolia var. ***longifolia*** (E. B. Bartram) B. H. Allen, Bryologist 93: 447. 1990. [See Allen, B. H., 1990c.]
Basionym: *Campylopus harrisii* var. *longifolius* E. B. Bartram, 1928.
Note: redundant combination in Frahm, Fl. Neotrop. 54: 36. 1991.

†BRYOKHUTULIINIA Ignatov, J. Hattori Bot. Lab. 71: 379. 1992. [See Ignatov, M. S., 1992.]
Type: *Bryokhutuliinia jurassica* Ignatov, holotype.

†B. ingodensis (Srebrodol'skaya) Ignatov, J. Hattori Bot. Lab. 71: 385. 1992. [See Ignatov, M. S., 1992.]
Basionym: *Muscites ingodensis* Srebrodol'skaya, 1980.

†B. jurassica Ignatov, J. Hattori Bot. Lab. 71: 379. 1992. [See Ignatov, M. S., 1992.]
Type: Mongolia. Southern-Gobi Aimak, 25 km to the S of Mandal-Obo village, Khutuliin-Khira loc., Bed 391/3, *A. G. Ponomarenko s.n.* Holotype: Paleontological Institute of Academy of Sciences of USSR, 4288.

BRYOLAWTONIA Norris & Enroth, Bryologist 93: 329. 1990. [See Norris, D. H. & J. Enroth, 1990.]
Type: *Thuidium vancouveriense* Kindberg in Macoun, *B. vancouveriensis* (Kindberg) Norris & Enroth, holotype.
Original placement: Thamnobryaceae.

B. vancouveriensis (Kindberg) Norris & Enroth, Bryologist 93: 329. 1990. [See Norris, D. H. & J. Enroth, 1990.]
Basionym: *Thuidium vancouveriense* Kindberg, 1890.

BRYONOGUCHIA Iwatsuki & H. Inoue, 1970.

B. brevifolia Zeng Shu-ying, Acta Bot. Yunnan. 13: 377. 1991. [See Zeng Shu-ying, 1991.]
Type: China. Yunnan: Weixi Xian, *Zhang Da-cheng 743a*. Holotype: HKAS.

BRYONORRISIA Stark & W. R. Buck, 1986.

B. acutifolia (Mitten) Enroth, J. Bryol. 16: 407. 1991. [See Enroth, J., 1991c.]
Basionym: *Anomodon acutifolius* Mitten, 1859.

BRYOSTREIMANNIA Ochyra, J. Bryol. 16: 644. 1991. [See Ochyra, R., 1991a.]
Replaced name: *Streimannia* Ochyra, 1990 [19 Dec].
Blocking name: *Streimannia* Thor, 1990 [1 Dec].

B. turgida (Ochyra) Ochyra, J. Bryol. 16: 644. 1991. [See Ochyra, R., 1991a.]
Basionym: *Streimannia turgida* Ochyra, 1990.

BRYUM Hedwig, 1801.

B. subsect. ***Densifolia*** Ochi, Bryobrothera 1: 236. 1992. [See Ochi, H., 1992.]
Type: *B. densifolium* Bridel
Original placement: sect. *Capillaria.*

B. subsect. ***Densirete*** Ochi, Bryobrothera 1: 235. 1992. [See Ochi, H., 1992.]
Type: *B. recurvulum* Mitten
Original placement: sect. *Caespiticia.*

B. subsect. ***Limbata*** Brotherus, Nat. Pflanzenfam. 1(3): 574. 1903.
Other use: *Bryum* sect. *Limbata* (Brotherus) Ochi, 1992.

B. sect. ***Limbata*** (Brotherus) Ochi, Bryobrothera 1: 234. 1992. [See Ochi, H., 1992.]
Basionym: *Bryum* subsect. *Limbata* Brotherus, 1903.

B. subsect. ***Papuana*** Ochi, Bryobrothera 1: 235. 1992. [See Ochi, H., 1992.]
Type: *B. papuanum* Dixon
Original placement: sect. *Apalodictyon.*

B. sect. ***Yasudaea*** Ochi, Bryobrothera 1: 233. 1992. [See Ochi, H., 1992.]
Type: *Anomobryum yasudae* Brotherus, *B. yasudae* (Brotherus) Ochi

B. algovicum var. ***compactum*** (Hornschuch) Düll, Bryol. Beitr. 8/9: 86. 1992. [See Düll, R., 1992.]
Basionym: *Ptychostomum compactum* Hornschuch, 1822.

B. demaretianum Arts, J. Bryol. 17: 263. 1992. [See Arts, T., 1992.]
Type: Belgium. Antwerp: Rijkevorsel, nature reserve De Bonte, *Arts 22205.* Holotype: BR; isotype: CGE.

****B. ehrenbergianum*** var. ***elimbatum*** Wijk, Margadant & Florschütz, Regnum Veg. 17: 298 (Ind. Musc. 1: 298). 1959.
*invalid, orthographic variant (Article 75.1).
Correct name: *Bryum ehrenbergianum* var. *subelimbatum* (Thériot) Thériot, 1933.

B. ehrenbergianum var. ***subelimbatum*** (Thériot) Thériot, Rev. Bryol. Lichénol. 5: 102. 1933.
Basionym: *Bryum subelimbatum* Thériot, 1928.
Note: not in *Index Muscorum.*

****B. funarioides*** Ochi, Hikobia 10: 420. f. 1. 1990. [See Ochi, H., 1990.]
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum funarioides* Bridel, 1817.
Type: Nepal. Upper Langtang Valley, 4,840 m, *G. & S. Miehe 12826.* Holotype: HIRO; isotypes: GOET, herb. Ochi.

****B. inclinatum*** (Swartz ex Bridel) Blandow, 1809.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum inclinatum* (Hedwig) Dickson ex Withering, 1801.

B. inclinatum var. ***litorum*** (Bomansson) Podpěra, 1954.
Note: redundant combination in Düll, Bryol. Beitr. 8/9: 90. 1990.

B. subelimbatum Thériot, Smithsonian Misc. Collect. 81: 13. f. 5. 1928.
Other use: *Bryum ehrenbergianum* var. *subelimbatum* (Thériot) Thériot, 1933.

BRYUM, continued.
B. tuberosum Mohamed & Damanhuri, Bryologist 93: 288. f. 1–10. 1990. [See Mohamed, H. & A. Damanhuri, 1990.]
Type: Malaysia. Pahang: Genting Highlands, 1,500 m, *Mohamed 5397*. Holotype: KLU; isotype: UKMB. Paratypes cited.
CADUCIELLA Enroth, J. Bryol. 16: 611. 1991. [See Enroth, J., 1991a.]
Type: *Neckera mariei* Bescherelle, *C. mariei* (Bescherelle) Enroth, holotype.
Original placement: Leptodontaceae.
C. mariei (Bescherelle) Enroth, J. Bryol. 16: 612. 1991. [See Enroth, J., 1991a.]
Basionym: *Neckera mariei* Bescherelle, 1885.
CALLICOSTELLA (C. Müller) Mitten, 1859, conserved name.
C. abrupta Mitten, J. Proc. Linn. Soc., Bot. 7: 161. 1864.
Other use: *Phyllodon abruptus* (Mitten) B. C. Tan in B. Thiers, 1992.
C. guatemalensis (E. B. Bartram) Florschütz-de Waard, Trop. Bryol. 3: 90. 1990. [See Florschütz-de Waard, J., 1990.]
Basionym: *Hookeriopsis guatemalensis* E. B. Bartram, 1946.
C. subsecunda (Mitten) B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Thiers, B. M., 1992.]
Basionym: *Hookeria subsecunda* Mitten, 1869.
CALLIERGONELLA Loeske, 1911.
C. lindbergii (Mitten) Hedenäs, Lindbergia 16: 167. 1990 [1992]. [See Hedenäs, L., 1990 [1992]b.]
Basionym: *Hypnum lindbergii* Mitten, 1864.
CALOMNION J. D. Hooker & Wilson in J. D. Hooker, 1854.
C. milleri Vitt, Novon 1: 53. f. 1–11. 1991. [See Vitt, D. H., 1991.]
Type: Lord Howe Island. E slope of Mt. Lidgride, SE of Goat House Cave on montane slope, *Vitt 28739*. Holotype: ALTA; isotypes: NY, NSW. Paratypes cited.
CALYMPERES Swartz ex Weber, 1814 [1813].
C. beccarii Hampe, Giorn. Bot. Ital. 4: 279. 1872.
Other use: *Calymperes lonchophyllum* subsp. *beccarii* (Hampe) Menzel in Menzel & Schultze-Motel, 1990.
C. elatissimum Fleischer, Musci Buitenzorg 1: 253. 1904.
Other use: *Calymperes porrectum* var. *elatissimum* (Fleischer) A. Eddy, n.d. [1990].
C. garciae Mitten in Hemsley, J. Linn. Soc., Bot. 22: 339. 1887.
Note: treated as invalid in *Index Muscorum*.
C. levyanum var. *hainanense* W. D. Reese & Lin Pang-juan, Bryologist 94: 70. f. 1–2. 1991. [See Reese, W. D. & Lin Pang-juan, 1991.]
Type: China. Hainan: Lingshui Co., 11 km NE of Diao Lu Shan Forestry Station, *Reese 17942*. Holotype: IBSC; isotypes: H, LAF, MO, NY, PE.
C. lonchophyllum subsp. *beccarii* (Hampe) Menzel in Menzel & Schultze-Motel, Willdenowia 19: 488. 1990. [See Menzel, M. & W. Schultze-Motel, 1990.]
Basionym: *Calymperes beccarii* Hampe, 1872.
C. lonchophyllum var. *saxatile* (C. Müller ex Bescherelle) Menzel in Menzel & Schultze-Motel, Willdenowia 19: 488. 1990. [See Menzel, M. & W. Schultze-Motel, 1990.]
Basionym: *Calymperes saxatile* C. Müller ex Bescherelle, 1895.

CALYMPERES, continued.

C. ***moluccense*** Schwägrichen, Sp. Musc. Frond., Suppl. 2 1(2): 99. 127. 1824.
Other use: *Calymperes palisotii* subsp. *moluccense* (Schwägrichen) Menzel in Menzel & Schultze-Motel, 1990.

C. ***palisotii*** subsp. ***moluccense*** (Schwägrichen) Menzel in Menzel & Schultze-Motel, Willdenowia 19: 489. 1990. [See Menzel, M. & W. Schultze-Motel, 1990.]
Basionym: *Calymperes moluccense* Schwägrichen, 1824.

C. ***peguense*** Bescherelle, Ann. Sci. Nat. Bot., sér. 8, 1: 299. 1896.
Other use: *Chameleion peguense* (Bescherelle) L. Ellis & A. Eddy in A. Eddy, n.d. [1990].

C. ***porrectum*** var. ***elatissimum*** (Fleischer) A. Eddy, Handb. Malesian Mosses 2: 108. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Calymperes elatissimum* Fleischer, 1904.

C. ***saxatile*** C. Müller ex Bescherelle, Ann. Sci. Nat. Bot., sér. 8, 1: 272. 1895.
Other use: *Calymperes lonchophyllum* var. *saxatile* (C. Müller ex Bescherelle) Menzel in Menzel & Schultze-Motel, 1990.

C. ***venezuelanum*** (Mitten) Brotherus ex Pittier, Bol. Soc. Venez. Ci. Nat. 3: 361. 1936.
Basionym: *Syrrhopodon venezuelanus* Mitten, 1869.
Note: cited from W. D. Reese, Bryologist 60: 336. 1957, in *Index Muscorum*.

CALYMPEROPSIS (C. Müller) Fleischer, 1913.

C. ***elimbatus*** Tixier, Bryologist 95: 284. f. 8–14. 1992. [See Tixier, P., 1992.]
Type: "Madagascar. Fianarantsoa: route de Mananjary, pk 24, Ranomafana, corticole, 900 m." *Tixier 10152*. Holotype: PC. Paratypes cited.

C. ***mandrakensis*** Tixier, Bryologist 95: 284. f. 1–7. 1992. [See Tixier, P., 1992.]
Type: "Madagascar. Tananarive: forêt de la Mandraka, formation dégradé, corticole, 1,250 m." *Tixier 11355*. Holotype: PC. Paratypes cited.

CALYPTROCHAETA Desvaux, 1825.

C. ***isophylla*** H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 14: 403. f. 43–47. 1990. [See Akiyama, H., 1990a.]
Type: Indonesia [Moluccas]. Ceram: Central Seram, Kecamatan Seram Utara, near Elemata-Makualaina, 400–650 m, *Akiyama C-9396*. Holotype: KYO.

C. ***microblasta*** (Brotherus) B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 9. 1990. [See Tan, B. & H. Robinson, 1990.]
Basionym: *Eriopus microblastus* Brotherus, 1913.

C. ***odontoloma*** (Dusén ex Matteri) Matteri in Boelcke, D. M. Moore & F. Roig, 1985.
Note: redundant combination in Deguchi, Bull. Natl. Sci. Mus., Ser. B, Bot. 17: 33. 1991.

C. ***ramosa*** (Fleischer) B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 10. 1990. [See Tan, B. & H. Robinson, 1990.]
Basionym: *Eriopus ramosus* Fleischer, 1908.

CAMPTOCHAETE Reichardt, 1870.

C. ***aciphylla*** Dixon & Sainsbury in Sainsbury, Trans. & Proc. Roy. Soc. New Zealand 75: 183. 1945.
Other use: *Fifea aciphylla* (Dixon & Sainsbury in Sainsbury) H. Crum, 1991.

CAMPTOTHECIUM W. P. Schimper in B.S.G., 1853.

C. sect. ***Trachybryum*** Brotherus, Nat. Pflanzenfam. 1(3): 1140. 1908.

Other use: *Trachybryum* (Brotherus) Schofield, 1968.

C. fallax Philibert in Husnot, Musci Gall. 11: 535. 1875.

Other use: *Homalothecium lutescens* var. *fallax* (Philibert in Husnot) Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, 1992.

C. megaptilum Sullivant, Icon. Musc. Suppl. 102. pl. 78. 1874.

Other use: *Trachybryum megaptilum* (Sullivant) Schofield, 1968.

CAMPYLIUM (Sullivant in A. Gray) Mitten, 1869.

C. krylovii (Podpěra) Lazarenko, Bot. Žurn. (Kiev) 2: 288. 1941.

Basionym: *Chrysohypnum krylovii* Podpěra, 1929.

Note: redundant combination in Wijk & Margadant, Taxon 8: 72. 1959.

C. laxifolium Engelmark & Hedenäs, Lindbergia 16: 147. f. 1. 1990 [1992]. [See Engelmark, T.-B. & L. Hedenäs, 1990 [1992].]

Type: Sweden. Lule Lappmark, Jokkmokk, Vaimat, Keutatjape, 66°30′N, 19°34′E, *T.-B. Engelmark s.n.* Aug 1982. Holotype: S; isotypes: BM, CANM, G, LE, NY. Other indicated distribution: Finland, Greenland, Norway, U.S.A. (Alaska).

CAMPYLOPUS Bridel, 1818.

C. arctocarpus var. ***caldensis*** (Ångström) Frahm, Fl. Neotrop. 54: 55. 1991. [See Frahm, J.-P., 1991c.]

Basionym: *Campylopus caldensis* Ångström, 1876.

C. atlanticus B. H. Allen, Bryologist 93: 447. f. 1–10. 1990. [See Allen, B. H., 1990c.]

Type: Panama. Bocas del Toro: vicinity of Fortuna Dam, along Continental Divide trail just west of Chiriqui Grande road at Continental Divide, 8°55′N, 82°08′W, *Allen 5713*. Holotype: MO; isotype: PMA. Paratype cited.

C. caldensis Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 5. 1876.

Other use: *Campylopus arctocarpus* var. *caldensis* (Ångström) Frahm, 1991.

C. densifolius var. ***hawaiicoflexuosus*** (C. Müller) H. A. Miller, J. Hattori Bot. Lab. 30: 271. 1967.

Basionym: *Dicranum hawaiicoflexuosum* C. Müller, 1896.

Note: not in *Index of Mosses, 1963–1989*.

C. densifolius var. ***purpureoflavescens*** (C. Müller) H. A. Miller, J. Hattori Bot. Lab. 30: 271. 1967.

Basionym: *Dicranum purpureoflavescens* C. Müller, 1896.

Note: not in *Index of Mosses, 1963–1989*.

C. flexuosus var. ***incacorralis*** (Herzog) Frahm, Fl. Neotrop. 54: 96. 1991 [21 Feb]. [See Frahm, J.-P., 1991c.]

Basionym: *Campylopus incacorralis* Herzog, 1910.

Note: previously invalid, basionym not cited (Article 33.2), in Bryol. Beitr. 7: 35. 1987; redundant combination in Frahm, Trop. Bryol. 4: 60. 1991 [15 Jul].

C. fragilis subsp. ***fragiliformis*** (Frahm) Frahm, 1987.

Note: redundant combination in Frahm, Fl. Neotrop. 54: 101. 1991.

C. fragilis subsp. ***goughii*** (Mitten) Frahm, Trop. Bryol. 4: 61. 1991. [See Frahm, J.-P., 1991a.]

Basionym: *Dicranum goughii* Mitten, 1859.

CAMPYLOPUS, continued.

*C. **fragilis*** subsp. ***zollingerianus*** (C. Müller) Frahm, Trop. Bryol. 4: 61. 1991. [See Frahm, J.-P., 1991a.]
Basionym: *Dicranum zollingerianum* C. Müller, 1851.

*C. **griseus*** var. ***ingeniensis*** (R. S. Williams) Frahm, Fl. Neotrop. 54: 110. 1991. [See Frahm, J.-P., 1991c.]
Basionym: *Campylopus ingeniensis* R. S. Williams, 1903.

*C. **harrisii*** var. ***longifolius*** E. B. Bartram, Contr. U.S. Natl. Herb. 26: 64. 1928.
Other use: *Bryohumbertia filifolia* var. *longifolia* (E. B. Bartram) B. H. Allen, 1990.

*C. **huallagensis*** var. ***weberbaueri*** (Brotherus) Frahm, Fl. Neotrop. 54: 114. 1991. [See Frahm, J.-P., 1991c.]
Basionym: *Campylopus weberbaueri* Brotherus, 1920.

*C. **incacorralis*** Herzog, Beih. Bot. Centralbl. 26(2): 52. f. 2. 1910.
Other use: *Campylopus flexuosus* var. *incacorralis* (Herzog) Frahm, 1991 [21 Feb].

*C. **ingeniensis*** R. S. Williams, Bull. New York Bot. Gard. 3: 109. 1903.
Other use: *Campylopus griseus* var. *ingeniensis* (R. S. Williams) Frahm, 1991.

*C. **nivalis*** var. ***multicapsularis*** (C. Müller) Frahm, Fl. Neotrop. 54: 139. 1991. [See Frahm, J.-P., 1991c.]
Basionym: *Dicranum multicapsulare* C. Müller, 1897.

*C. **schmidii*** subsp. ***hemitrichius*** (C. Müller) Frahm, Bryologist 94: 64. 1991. [See Frahm, J.-P., 1991b.]
Basionym: *Dicranum hemitrichium* C. Müller, 1874.

*C. **weberbaueri*** Brotherus, Bot. Jahrb. Syst. 56(Beibl. 123): 5. 1920.
Other use: *Campylopus huallagensis* var. *weberbaueri* (Brotherus) Frahm, 1991.

CEPHALOCLADIUM Lazarenko, 1946.

*C. **zerovii*** Lazarenko, Bot. Žurn. (Kiev) 3: 62. 1946.
Other use: *Struckia argentata* var. *zerovii* (Lazarenko) B. C. Tan, W. R. Buck & Ignatov, 1990 [1992].

CERATODON Bridel, 1826.

*C. **convolutus*** Reichardt, Verh. Zool.-Bot. Ges. Wien 18: 194. 1868.
Other use: *Ceratodon purpureus* subsp. *convolutus* (Reichardt) Burley in Burley & N. Pritchard, 1990.

*C. **purpureus*** subsp. ***convolutus*** (Reichardt) Burley in Burley & N. Pritchard, Harvard Pap. Bot. 2: 57. 1990. [See Burley, J. S. & N. M. Pritchard, 1990.]
Basionym: *Ceratodon convolutus* Reichardt, 1868.

CHAETOMITRIUM Dozy & Molkenboer, 1846.

*C. **schofieldii*** B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 31. 1990. [See Tan, B. & H. Robinson, 1990.]
Replaced name: *Chaetomitrium seriatum* Brotherus ex E. B. Bartram, 1939.
Blocking name: *Chaetomitrium seriatum* Brotherus, 1913.

C. **seriatum* Brotherus ex E. B. Bartram, Philipp. J. Sci. 68: 271. 1939.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Chaetomitrium seriatum* Brotherus, 1913.
Correct name: *Chaetomitrium schofieldii* B. C. Tan & H. Robinson, 1990.

*C. **volutum*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 115. 1859.
Other use: *Papillidiopsis ramulina* var. *voluta* (Mitten) B. C. Tan, 1991.

CHAMELEION L. Ellis & A. Eddy in A. Eddy, Handb. Malesian Mosses 2: 250. n.d. [1990].
Replaced name: *Heliconema* (Mitten) L. Ellis & A. Eddy, 1989.
Blocking name: *Heliconema* Schopf, 1968.

C. cryptocarpus (Dozy & Molkenboer) L. Ellis & A. Eddy in A. Eddy, Handb. Malesian Mosses 2: 250. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Syrrhopodon cryptocarpus* Dozy & Molkenboer, 1854.

C. peguense (Bescherelle) L. Ellis & A. Eddy in A. Eddy, Handb. Malesian Mosses 2: 250. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Calymperes peguense* Bescherelle, 1896.

C. xanthophyllus (Mitten) L. Ellis & A. Eddy in A. Eddy, Handb. Malesian Mosses 2: 250. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Syrrhopodon xanthophyllus* Mitten, 1869.

CHILEOBRYON Enroth, Nova Hedwigia 54: 138. 1992. [See Enroth, J., 1992e.]
Type: *Porotrichum callicostelloides* Brotherus ex Thériot, *C. callicostelloides* (Brotherus ex Thériot) Enroth, holotype.
Original placement: Anomodontaceae.

C. callicostelloides (Brotherus ex Thériot) Enroth, Nova Hedwigia 54: 138. 1992. [See Enroth, J., 1992e.]
Basionym: *Porotrichum callicostelloides* Brotherus ex Thériot, 1917.

CHIONOLOMA Dixon, 1922.

C. angustata (Mitten) Menzel, Willdenowia 22: 197. 1992. [See Menzel, M., 1992b.]
Basionym: *Tortula angustata* Mitten, 1859.

C. bartramii (Thériot ex E. B. Bartram) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Pseudosymblepharis bartramii* Thériot ex E. B. Bartram, 1929.

C. duriuscula (Mitten) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Tortula duriuscula* Mitten, 1859.

C. schimperiana (Paris) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Syrrhopodon schimperianus* Paris, 1898.

C. socotrana (Mitten) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Symblepharis socotrana* Mitten, 1888.

C. subduriuscula (C. Müller) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Barbula subduriuscula* C. Müller, 1874.

CHORISODONTIUM (Mitten) Brotherus, 1924.

C. skottsbergii (Cardot) Frahm ex Bartlett & Vitt, New Zealand J. Bot. 24: 205. 1986.
Basionym: *Blindia skottsbergii* Cardot, 1906.
Note: not in *Index of Mosses, 1963–1989*.

CHRYSOHYPNUM (Hampe) G. Roth, 1899.

C. krylovii Podpěra, Spisy Přír. Fak. Masarykovy Univ. 116: 28. f. 19. 1929, "*krylovi*."
Other use: *Campylium krylovii* (Podpěra) Lazarenko, 1941.

CINCLIDOTUS W. J. Hooker & Taylor, 1818.

C. herzogii Pavletić, 1955.
Note: not in *Index Muscorum*; author incorrectly cited as Paul in *Index of Mosses, 1963–1989*.

CIRRIPHYLLUM Grout, 1898.
*C. **flotowianum*** (Sendtner) Ochyra in Kuta, Ochyra & Przywara, Polish Bot. Stud. 1: 142. 1990. [See Kuta, E., R. Ochyra & L. Przywara, 1990.]
Basionym: *Hypnum flotowianum* Sendtner, 1841.

CLASTOBRYOPHILUM Fleischer, 1923.
*C. **serrulatum*** Brotherus, Mitt. Inst. Allg. Bot. Hamburg 7(2): 129. 1928.
Other use: *Trichosteleum serrulatum* (Brotherus) B. C. Tan, 1991.

CLASTOBRYOPSIS Fleischer, 1923.
*C. **perdecurrens*** (Dixon) B. C. Tan, J. Hattori Bot. Lab. 70: 92. 1991. [See Tan, B. C., 1991.]
Basionym: *Clastobryum perdecurrens* Dixon, 1942.

CLASTOBRYUM Dozy & Molkenboer, 1846.
*C. **dimorphum*** (Stone) B. C. Tan & Iwatsuki, Hikobia 11: 151. 1992. [See Tan, B. C. & Z. Iwatsuki, 1992.]
Basionym: *Tristichella dimorpha* Stone, 1987.
*C. **epiphyllum*** (Renauld & Cardot) B. C. Tan & Touw in B. C. Tan, J. Hattori Bot. Lab. 70: 93. 1991. [See Tan, B. C., 1991.]
Basionym: *Trichosteleum epiphyllum* Renauld & Cardot, 1896.
*C. **glabrescens*** (Iwatsuki) B. C. Tan & Iwatsuki, Hikobia 11: 151. 1992. [See Tan, B. C. & Z. Iwatsuki, 1992.]
Basionym: *Tristichella glabrescens* Iwatsuki, 1977.
*C. **perdecurrens*** Dixon, J. Bot. 80: 30. 1942, "*Clastobryus*."
Other use: *Clastobryopsis perdecurrens* (Dixon) B. C. Tan, 1991.
*C. **spiculiferum*** (Dixon) B. C. Tan & Iwatsuki, Hikobia 11: 151. 1992. [See Tan, B. C. & Z. Iwatsuki, 1992.]
Basionym: *Tristichella spiculifera* Dixon, 1932.
*C. **surculare*** Dixon, Bull. Torrey Bot. Club 51: 237. 1924.
Other use: *Leiodontium surculare* (Dixon) W. R. Buck & B. C. Tan in B. C. Tan, 1991.
*C. **tonkinense*** Brotherus & Paris, Rev. Bryol. 35: 47. 1908.
Other use: *Gammiella tonkinensis* (Brotherus & Paris) B. C. Tan, 1990.

COCHLEARIDIUM Ochyra & Mahu, J. Bryol. 16: 215. f. 1–23. 1990. [See Ochyra, R. & M. Mahu, 1990.]
Type: *C. aymaranum* Ochyra & Mahu, holotype.
Original placement: Cochleariadiaceae.
*C. **aymaranum*** Ochyra & Mahu, J. Bryol. 16: 215. f. 1–23. 1990. [See Ochyra, R. & M. Mahu, 1990.]
Type: Chile. Parinacota: Quebrada Vilayuyumani, sur del Portezuelo de Putre, 18°14′S, 69°24′W, 4,180 m, *Belmonte s.n.* 1988. Holotype: SGO; isotypes: F, FH, H, JE, KRAM, MO, NMW, NY, U.

CORYNOTHECA Ochyra, Polish Bot. Stud. 1: 60. 1990. [See Ochyra, R., 1990c.]
Type: *C. poeltii* Ochyra, holotype.
Original placement: Funariaceae.
*C. **poeltii*** Ochyra, Polish Bot. Stud. 1: 60. f. 1–32. 1990. [See Ochyra, R., 1990c.]
Type: Nepal. Central Himalayas, upper Langtang Valley, on N slope above Nubama Dang, 28°10′N, 85°20′E, 4,300–4,500 m, *Poelt s.n.* 1986. Holotype: GZU; isotype: KRAM.

CRASSIPHYLLUM Ochyra, Fragm. Florist. Geobot. 36: 72. 1991. [See Ochyra, R., 1991b.]
Type: *Thamnobryum fernandesii* Sérgio, *C. fernandesii* (Sérgio) Ochyra, holotype.
Original placement: Thamnobryaceae.
*C. **fernandesii*** (Sérgio) Ochyra, Fragm. Florist. Geobot. 36: 75. 1991. [See Ochyra, R., 1991b.]
Basionym: *Thamnobryum fernandesii* Sérgio, 1981.

CRUMUSCUS W. R. Buck & Snider, Contr. Univ. Michigan Herb. 18: 39. 1992. [See Buck, W. R. & J. A. Snider, 1992.]
Type: *C. vitalis* W. R. Buck & Snider, holotype.
Original placement: Ditrichaceae.
C. vitalis W. R. Buck & Snider, Contr. Univ. Michigan Herb. 18: 39. f. 1–10. 1992. [See Buck, W. R. & J. A. Snider, 1992.]
Type: Brazil. Rio de Janeiro: Parque Nacional de Itatiaia, ca. 3 km, *Vital 7435*. Holotype: NY; isotypes: BUF, CINC, FLAS, MO, SP. Other indicated distribution: Brazil (Minas Gerais).

CRYPHAEA D. Mohr & Weber, 1814 [1813].
C. clandestina Enroth, Ann. Bot. Fenn. 27: 183. f. 3. 1990. [See Enroth, J., 1990a.]
Type: Papua New Guinea. Morobe: 3 km W of Lake Wamba (5 km S of Tep-tep Airstrip), along major stream W of first ridge from Lake Wamba, 6°00.5′S, 146°31′E, 2,400 m, *Norris 64675*. Holotype: H; isotype: LAE.
C. helictophylla Montagne, Ann. Sci. Nat. Bot., sér. 3, 4: 99. 1845.
Other use: *Cryptopapillaria helictophylla* (Montagne) Menzel, 1992.
C. tenuissima W. J. Hooker & Wilson, London J. Bot. 5: 453. pl. 15: E. 1846.
Other use: *Meteoridium tenuissimum* (W. J. Hooker & Wilson) M. A. Lewis, 1992.

CRYPTOLEPTODON Renauld & Cardot, 1899.
C. longisetus (Montagne in Webb & Berthelot) Enroth, J. Hattori Bot. Lab. 71: 76. 1992. [See Enroth, J., 1992a.]
Basionym: *Leptodon longisetus* Montagne in Webb & Berthelot, 1840.

CRYPTOPAPILLARIA Menzel, Willdenowia 22: 181. 1992. [See Menzel, M., 1992c.]
Type: *Neckera fuscescens* W. J. Hooker, *C. fuscescens* (W. J. Hooker) Menzel.
Original placement: Meteoriaceae.
C. chrysoclada (C. Müller) Menzel, Willdenowia 22: 182. 1992. [See Menzel, M., 1992c.]
Basionym: *Neckera chrysoclada* C. Müller, 1850.
C. feae (C. Müller ex Fleischer) Menzel, Willdenowia 22: 182. 1992. [See Menzel, M., 1992c.]
Basionym: *Papillaria feae* C. Müller ex Fleischer, 1908.
C. fuscescens (W. J. Hooker) Menzel, Willdenowia 22: 183. 1992. [See Menzel, M., 1992c.]
Basionym: *Neckera fuscescens* W. J. Hooker, 1819.
C. helictophylla (Montagne) Menzel, Willdenowia 22: 182. 1992. [See Menzel, M., 1992c.]
Basionym: *Cryphaea helictophylla* Montagne, 1845.
C. penicillata (Dozy & Molkenboer) Menzel, Willdenowia 22: 182. 1992. [See Menzel, M., 1992c.]
Basionym: *Meteorium penicillatum* Dozy & Molkenboer, 1854.

CTENIDIUM (W. P. Schimper) Mitten, 1869.
C. aurifolium Mitten, J. Linn. Soc., Bot. 12: 509. 1869.
Other use: *Puiggariopsis aurifolia* (Mitten) Menzel, 1992.

CYRTO-HYPNUM Hampe, 1869.
C. atlanticum (Hedenäs) Hedenäs & Sérgio in Hedenäs, Bryoph. Biblioth. 44: 69. 1992. [See Hedenäs, L., 1992b.]
Basionym: *Thuidium atlanticum* Hedenäs, 1991.

CYRTO-HYPNUM, continued.

*C. **bonianum*** (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium bonianum* Bescherelle, 1887.

*C. **brotheri*** (E. S. Salmon) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium brotheri* E. S. Salmon, 1901.

*C. **byssoideum*** (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium byssoideum* Bescherelle, 1885.

*C. **chenagonii*** (C. Müller ex Renauld & Cardot) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium chenagonii* C. Müller ex Renauld & Cardot, 1895.

*C. **curtisetum*** (Norris & T. Koponen) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Orthothuidium curtisetum* Norris & T. Koponen, 1985.

*C. **gratum*** (Palisot de Beauvois) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum gratum* Palisot de Beauvois, 1805.

*C. **gratum*** subsp. ***subscissum*** (C. Müller ex Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium subscissum* C. Müller ex Bescherelle, 1880.

C. **haplohymenium* (Harvey) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Hypnum haplohymenium* Harvey, 1840.
Earlier name: *Haplohymenium microphyllum* Schwägrichen, 1829.

*C. **intricatum*** (Jaeger) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium intricatum* Jaeger, 1878.

*C. **investe*** (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum investe* Mitten, 1856.

*C. **involvens*** (Hedwig) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Leskea involvens* Hedwig, 1801.

*C. **involvens*** subsp. ***thomeanum*** (Brotherus) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium involvens* var. *thomeanum* Brotherus, 1890.

*C. **kiasense*** (R. S. Williams) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium kiasense* R. S. Williams, 1914.

*C. **koelzii*** (H. Robinson) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium koelzii* H. Robinson, 1968.

CYRTO-HYPNUM, continued.

*C. **kuripanum*** (Dozy & Molkenboer in Zollinger) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum kuripanum* Dozy & Molkenboer in Zollinger, 1855.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Thuidium kuripanum* Dozy & Molk."

*C. **lepidoziaceum*** (Sakurai) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium lepidoziaceum* Sakurai, 1947.

*C. **leptocladum*** (Taylor) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Leskea leptoclada* Taylor, 1847.

*C. **mexicanum*** (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium mexicanum* Mitten, 1869.

*C. **minusculum*** (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Leskea minuscula* Mitten, 1859.

*C. **minutulum*** (Hedwig) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 66. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum minutulum* Hedwig, 1801.

*C. **montei*** Hedenäs, Bryoph. Biblioth. 44: 71. f. 19. 1992. [See Hedenäs, L., 1992b.]
Type: Madeira. "Quinta do Rocha Machado - Monte." *Barreto s.n.* 10 Feb 1935. Holotype: MADS. Paratype cited.

*C. **pelekinoides*** (Chen Pan-chieh) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium pelekinoides* Chen Pan-chieh, 1941.

*C. **pseudoinvolvens*** (C. Müller) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum pseudoinvolvens* C. Müller, 1876.

*C. **pygmaeum*** (W. P. Schimper in B.S.G.) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium pygmaeum* W. P. Schimper in B.S.G., 1852.

*C. **ramusculosum*** (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Leskea ramusculosa* Mitten, 1863.

*C. **rubiginosum*** (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium rubiginosum* Bescherelle, 1892.

*C. **scabrosulum*** (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium scabrosulum* Mitten, 1869.

*C. **schistocalyx*** (C. Müller) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum schistocalyx* C. Müller, 1851.

CYRTO-HYPNUM, continued.
C. sharpii (H. Crum) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium sharpii* H. Crum, 1984.
C. sparsifolium (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Leskea sparsifolia* Mitten, 1859.
C. squarrosulum (Renauld & Cardot) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium squarrosulum* Renauld & Cardot, 1899.
C. stevensii (Renauld & Cardot) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium stevensii* Renauld & Cardot, 1899.
C. synoicum (Touw in Touw & Falter-van den Haak) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium synoicum* Touw in Touw & Falter-van den Haak, 1989.
C. talongense (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium talongense* Bescherelle, 1892.
C. tamariscellum (C. Müller) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum tamariscellum* C. Müller, 1854.
C. tenuissimum (Welwitsch & Duby in Duby) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium tenuissimum* Welwitsch & Duby in Duby, 1872.
C. varians (Welwitsch & Duby in Duby) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium varians* Welwitsch & Duby in Duby, 1872.
C. venustulum (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium venustulum* Bescherelle, 1892.
C. versicolor (Hornschuch ex C. Müller) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Hypnum versicolor* Hornschuch ex C. Müller, 1851.
C. vestitissimum (Bescherelle) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 67. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium vestitissimum* Bescherelle, 1892.
DALTONIA W. J. Hooker & Taylor, 1818, conserved name.
D. afropatula B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Thiers, B. M., 1992.]
Replaced name: *Daltonia patula* Mitten, 1863.
Blocking name: *Daltonia patula* (Hedwig) Sprengel, 1827.
**D. patula* Mitten, J. Proc. Linn. Soc., Bot. 7: 162. 1863.
*illegitimate, later homonym (Article 64.1).
Correct name: *Daltonia afropatula* B. C. Tan in B. Thiers, 1992.

DALTONIA, continued.

D. robbinsii (E. B. Bartram) B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 27. 1990. [See Tan, B. & H. Robinson, 1990.]

Basionym: *Leskeodon robbinsii* E. B. Bartram, 1962.

*DESMOTHECA Lindberg, 1873.

*illegitimate, type of earlier name included (Article 63.1).

Replaced name: *Cryptocarpon* Dozy & Molkenboer, 1844.

Correct name: *Cryptocarpon* Dozy & Molkenboer, 1844

Note: Lindberg proposed *Desmotheca* to replace *Cryptocarpon* Dozy & Molkenboer (1844), which he spelled *Cryptocarpus*, stating that "there is already a *Cryptocarpus* H.B.K.," which was published in 1817. Although Dozy and Molkenboer themselves used the spelling *Cryptocarpus* in 1846, there is no reason to change *Cryptocarpon* nor is it homonymic with *Cryptocarpus*, and *Cryptocarpon* is the correct name for this genus.

D. brachiata (W. J. Hooker & Wilson) Vitt, Trop. Bryol. 3: 84. 1990. [See Vitt, D. H., 1990.]

Basionym: *Macromitrium brachiatum* W. J. Hooker & Wilson, 1848.

DICNEMON Schwägrichen, 1826.

D. undulatifolius Dixon, Farlowia 1: 28. 1943.

Other use: *Dicranum undulatifolium* (Dixon) Norris & T. Koponen, 1990.

DICRANELLA (C. Müller) W. P. Schimper, 1856.

D. mayebarae (Sakurai) Matsui & Iwatsuki, J. Hattori Bot. Lab. 68: 364. 1990. [See Matsui, T. & Z. Iwatsuki, 1990.]

Basionym: *Ditrichum mayebarae* Sakurai, 1939.

D. papua-palustris Norris & T. Koponen, Acta Bot. Fenn. 139: 17. 1990. [See Norris, D. H. & T. Koponen, 1990.]

Type: Papua New Guinea. Morobe: Mt. Sarawaket, 2,700–2,900 m, *Norris 63431*. Holotype: H; isotype: LAE.

DICRANODONTIUM Bruch & W. P. Schimper in B.S.G., 1847.

D. intermedium B. H. Allen, Novon 2: 1. f. 1–7. 1992. [See Allen, B., 1992a.]

Type: Panama. Chiriquí: Volcán Barú, 8°45′N, 82°30′W, *Allen 9123*. Holotype: MO; isotypes: NY, PMA. Paratype cited.

D. novoguineense Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 37: 154. 1895, "*novoguinense*."

Other use: *Atractylocarpus novoguineensis* (Brotherus & Geheeb) Norris & T. Koponen, 1990.

D. subporodictyon Brotherus, Symb. Sin. 4: 20. 1929.

Other use: *Dicranum subporodictyon* (Brotherus) Gao Chien & Cao Tong, 1992.

DICRANOLOMA (Renauld) Renauld, 1901.

D. brittonae E. B. Bartram, Contr. U.S. Natl. Herb. 26: 69. f. 11. 1928.

Other use: *Eucamptodontopsis brittonae* (E. B. Bartram) B. H. Allen, 1990.

D. damanhurii B. C. Tan & Mohamed, Cryptog. Bryol. Lichénol. 11: 359. 1990. [See Tan, B. C. & H. Mohamed, 1990.]

Type: Malaysia [Peninsular Malaysia]: Pahang, Gunung Jasar Trail no. 11, near peak, *Damanhuri 2028*. Holotype: KLU; isotypes: NICH, NY, UKMB. Paratypes cited.

D. daymannianum E. B. Bartram, Brittonia 9: 35. 1957.

Other use: *Dicranum daymannianum* (E. B. Bartram) Norris & T. Koponen, 1990.

DICRANOLOMA, continued.

D. kwangtungense Chen Pan-chieh, Contr. Inst. Biol. Natl. Centr. Univ. 1: 2. 1943.

Other use: *Dicranum kwangtungense* (Chen Pan-chieh) T. Koponen in Lin Pang-juan et al., 1992.

D. rugifolium E. B. Bartram, Lloydia 5: 251. pl. 1: f. 5. 1942.

Other use: *Dicranum rugifolium* (E. B. Bartram) Norris & T. Koponen, 1990.

DICRANOWEISIA Lindberg ex Milde, 1869.

D. antarctica var. ***robusta*** (Cardot) Seppelt, J. Bryol. 16: 608. 1991, "*robustum*." [See Seppelt, R. D., 1991.]

Basionym: *Ditrichum subaustrale* var. *robustum* Cardot, 1916.

D. brevifolia Herzog, Repert. Spec. Nov. Regni Veg. Beih. 108: 6. pl. 1: a–c. 1938.

Type: Afghanistan. "Afgh: nörld. Zentral-Nuristan: Brubruts, unter feuchten Überhang an Graben, 2,400 m." *Collector not indicated.* Date not indicated. Herbarium not indicated.

Note: not in *Index Muscorum*.

DICRANUM Hedwig, 1801.

D. cutlackii Norris & T. Koponen, Acta Bot. Fenn. 139: 38. 1990. [See Norris, D. H. & T. Koponen, 1990.]

Type: Papua New Guinea. Morobe: Mt. Sarawaket, 3,350 m, *Norris 62827*. Holotype: H; isotypes: HSC, LAE.

****D. cylindricum*** Brotherus, Symb. Sin. 4: 27. 1929.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Dicranum cylindricum* (Hedwig) Smith, 1804.

Correct name: *Dicranum longicylindricum* Gao Chien & Cao Tong, 1992.

D. daymannianum (E. B. Bartram) Norris & T. Koponen, Acta Bot. Fenn. 139: 40. 1990. [See Norris, D. H. & T. Koponen, 1990.]

Basionym: *Dicranoloma daymannianum* E. B. Bartram, 1957.

D. geluense (Herzog) Norris & T. Koponen, Acta Bot. Fenn. 139: 43. 1990. [See Norris, D. H. & T. Koponen, 1990.]

Basionym: *Werneriobryum geluense* Herzog, 1909.

D. goughii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 17. 1859.

Other use: *Campylopus fragilis* subsp. *goughii* (Mitten) Frahm, 1991.

D. guadalupense Bridel, Muscol. Recent. Suppl. 1: 213. 1806.

Other use: *Pilopogon guadalupensis* (Bridel) Frahm, 1991.

D. gymnostomum var. ***hokinense*** Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 15: 51. 1892.

Other use: *Dicranum hokinense* (Bescherelle) Gao Chien & Cao Tong, 1992.

D. hawaiicoflexuosum C. Müller, Flora 82: 443. 1896.

Other use: *Campylopus densifolius* var. *hawaiicoflexuosus* (C. Müller) H. A. Miller, 1967.

D. hemitrichium C. Müller, Linnaea 38: 553. 1874.

Other use: *Campylopus schmidii* subsp. *hemitrichius* (C. Müller) Frahm, 1991.

D. hokinense (Bescherelle) Gao Chien & Cao Tong, Bryobrothera 1: 218. 1992. [See Gao Chien & Cao Tong, 1992.]

Basionym: *Dicranum gymnostomum* var. *hokinense* Bescherelle, 1892.

Note: not illegitimate, superfluous and incorrect when published (Article 63.3); correct name in original context: *D. handelii* Brotherus.

DICRANUM, continued.
D. kwangtungense (Chen Pan-chieh) T. Koponen in Lin Pang-juan et al., Bryobrothera 1: 200. 1992. [See Lin Pang-juan, S. Piippo, T. Koponen & Wu Pan-cheng, 1992.]
Basionym: *Dicranoloma kwangtungense* Chen Pan-chieh, 1943.
D. longicylindricum Gao Chien & Cao Tong, Bryobrothera 1: 218. 1992. [See Gao Chien & Cao Tong, 1992.]
Replaced name: *Dicranum cylindricum* Brotherus, 1929.
Blocking name: *Dicranum cylindricum* (Hedwig) Smith, 1804.
D. maganoi Wijk, Margadant & Florschütz, 1969.
*invalid, orthographic variant (Article 75.1).
D. montanum var. *pulvinatum* Pfeffer, 24(5): 21. 1869.
Other use: *Orthodicranum montanum* fo. *pulvinatum* (Pfeffer) Lazarenko ex Ochyra, 1978.
D. multicapsulare C. Müller, Nuovo Giorn. Bot. Ital., n. s., 4: 34. 1897.
Other use: *Campylopus nivalis* var. *multicapsularis* (C. Müller) Frahm, 1991.
D. purpureoflavescens C. Müller, Flora 82: 442. 1896.
Other use: *Campylopus densifolius* var. *purpureoflavescens* (C. Müller) H. A. Miller, 1967.
D. rugifolium (E. B. Bartram) Norris & T. Koponen, Acta Bot. Fenn. 139: 44. 1990. [See Norris, D. H. & T. Koponen, 1990.]
Basionym: *Dicranoloma rugifolium* E. B. Bartram, 1942.
D. subporodictyon (Brotherus) Gao Chien & Cao Tong, Bryobrothera 1: 218. 1992. [See Gao Chien & Cao Tong, 1992.]
Basionym: *Dicranodontium subporodictyon* Brotherus, 1929.
D. undulatifolium (Dixon) Norris & T. Koponen, Acta Bot. Fenn. 139: 46. 1990. [See Norris, D. H. & T. Koponen, 1990.]
Basionym: *Dicnemon undulatifolius* Dixon, 1943.
D. zollingerianum C. Müller, Syn. Musc. Frond. 2: 599. 1851.
Other use: *Campylopus fragilis* subsp. *zollingerianus* (C. Müller) Frahm, 1991.
DIDYMODON Hedwig, 1801.
D. luridus Hornschuch in Sprengel, Syst. Veg. Fl. Peruv. Chil. 4(1): 173. 1827.
Other use: *Barbula imbricata* Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, 1991.
DIPHYSCIUM D. Mohr, 1803.
D. buckii B. C. Tan, Bryologist 93: 429. f. 1–5. 1990. [See Tan, B. C., 1990.]
Type: Philippines. Mindanao: Bukidnon Prov., Mt. Kitanglad, ca. 1,800 m, *Tan, Navarez & Amoroso 84-267*. Holotype: FH; isotypes: H, L, NICH, NY.
DISTICHOPHYLLIDIUM Fleischer, 1908.
D. nymanianum Fleischer, Musci Buitenzorg 3: 967. f. 167: a–e. 1908.
Other use: *Archboldiella nymaniana* (Fleischer) H. Akiyama, 1990.
DISTICHOPHYLLUM Dozy & Molkenboer, 1846.
D. sect. *Platyovatophyllum* B. C. Tan, Bryologist 93: 432. 1990. [See Tan, B. C., 1990.]
Type: *D. noguchianum* B. C. Tan
D. brevicuspidatum E. B. Bartram, Brittonia 9: 48. 1957.
Other use: *Leskeodon brevicuspidatus* (E. B. Bartram) B. C. Tan & H. Robinson, 1990.
D. elmeri Brotherus, Leafl. Philipp. Bot. 2: 656. 1909.
Other use: *Distichophyllum nigricaule* var. *elmeri* (Brotherus) B. C. Tan & H. Robinson, 1990.

DISTICHOPHYLLUM, continued.

D. nigricaule var. ***elmeri*** (Brotherus) B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 22. 1990. [See Tan, B. & H. Robinson, 1990.]
Basionym: *Distichophyllum elmeri* Brotherus, 1909.

D. noguchianum B. C. Tan, Bryologist 93: 429. f. 6–12. 1990. [See Tan, B. C., 1990.]
Type: Philippines. Mindoro: Mt. Halcon, trail to summit from Baco side, ca. 1,600 m, *Tan 87-124*. Holotype: FH; isotypes: H, L, NICH, NY, US.
Original placement: sect. *Platyovatophyllum*.

D. oblongum B. C. Tan & Lin Pang-juan, Bot. Bull. Acad. Sin. 32: 310. 1991. [See Tan, B. C. & Lin Pang-juan, 1991.]
Type: China. Guangxi: Miao-er-shan, *Lin 1748*. Holotype: IBSC; isotype: FH.
Original placement: sect. *Distichophyllum*.

DITRICHUM Hampe, 1867, conserved name.

D. mayebarae Sakurai, Bot. Mag. (Tokyo) 53: 62. f. 6. 1939.
Other use: *Dicranella mayebarae* (Sakurai) Matsui & Iwatsuki, 1990.

D. sekii Ando & Deguchi ex Matsui & Iwatsuki, J. Hattori Bot. Lab. 68: 344. f. 14. 1990. [See Matsui, T. & Z. Iwatsuki, 1990.]
Type: Japan [Honshu]. Hiroshima-ken, Isl. Miyajima, *Seki 3102*. Holotype: HIRO; isotype: NICH. Paratypes cited.

D. subaustrale var. ***robustum*** Cardot, Bull. Mus. Hist. Nat. (Paris) 22: 337. 1916.
Other use: *Dicranoweisia antarctica* var. *robusta* (Cardot) Seppelt, 1991.

DRUMMONDIA W. J. Hooker in Drummond, 1828, conserved name.

D. rubiginosa C. Müller, Nuovo Giorn. Bot. Ital., n. s., 3: 106. 1896.
Other use: *Schlotheimia rubiginosa* (C. Müller) Vitt, 1972.

ECTROPOTHECIUM Mitten, 1868.

E. novae-valesiae (Brotherus) Ireland, Bryologist 95: 223. 1992. [See Ireland, R. R., 1992.]
Basionym: *Plagiothecium novae-valesiae* Brotherus, 1916.

ENCALYPTA Hedwig, 1801.

E. buxbaumioidea Cao Tong, Gao Chien & Bai Xue-liang in Cao Tong & Gao Chien, Acta Bryolichenol. Asiat. 2: 1. f. 1. 1990 [1991]. [See Cao Tong & Gao Chien, 1990 [1991].]
Type: China. Nei Mongol: Haunggangliang forest center, Keshike Qi (Banner) near Chifeng city, *Bai Xueliang 79*. Holotype: HIMC; isotype: IFP.

ENTODONTOPSIS Brotherus in Engler & Prantl, 1907.

E. wightii (Mitten) W. R. Buck & Ireland, Nova Hedwigia 41: 106. 1985.
Basionym: *Hypnum wightii* Mitten, 1859.
Note: incorrectly spelled "*wrightii*" in *Index of Mosses, 1963–1989*.

EPIPTERYGIUM Lindberg, 1862.

E. obovatum Ochyra, Polish Bot. Stud. 1: 52. f. 1–29. 1990. [See Ochyra, R., 1990b.]
Type: New Zealand. South Island: N. W. Nelson District, Tasman Mts., Kakapo Saddle, ca. 1,000 m, *Bartlett 33016*. Holotype: AK; isotypes: F, KRAM.
Note: published 15 Oct 1990.

EPIPTERYGIUM, continued.

E. oparanense Fife & A. J. Shaw, New Zealand J. Bot. 28: 375. f. 1–2. 1990. [See Fife, A. J. & A. J. Shaw, 1990.]
Type: New Zealand. South Island: Nelson Land District, valley of Oparara River, vicinity of Oparara Limestone Arch, 41°09′S, 172°11′E, *Fife 7047*. Holotype: CHR; isotypes: BA, MICH, NSW, NY, WELT. Paratype cited.
Note: published 20 Dec 1990.

ERIOPUS (Bridel) Bridel, 1827.

E. microblastus Brotherus, Philipp. J. Sci. 8: 82. 1913.
Other use: *Calyptrochaeta microblasta* (Brotherus) B. C. Tan & H. Robinson, 1990.

E. pacificus var. *samoanus* Mitten ex H. O. Whittier, Mosses Society Isl. 273. 1976.
Type: "Samoa." *Powell s.n.* Holotype: NY-Mitten.
Note: not in *Index of Mosses, 1963–1989*.

E. ramosus Fleischer, Musci Buitenzorg 3: 1007. f. 171: 1–5. 1908.
Other use: *Calyptrochaeta ramosa* (Fleischer) B. C. Tan & H. Robinson, 1990.

ERYTHRODONTIUM Hampe, 1870.

E. subfalcatum Dixon in Lazarenko, Bot. Žurn. (Kiev) 2(3–4): 185. 1945.
Type: Russia. "In saxis atque truncis arborum in Asiae borealis: Regio Ussuriensis, in monte ad fl. Bikin prope pag. Krasnyj Pereval." *Collector not indicated*. Paratypes cited.

EUCAMPTODONTOPSIS Brotherus in Engler & Prantl, 1924.

E. brittonae (E. B. Bartram) B. H. Allen, Trop. Bryol. 3: 60. 1990. [See Allen, B., 1990b.]
Basionym: *Dicranoloma brittonae* E. B. Bartram, 1928.

EURHYNCHIUM Bruch & W. P. Schimper in B.S.G., 1854.

E. flotowianum (Sendtner) Karttunen, Taxon 39: 317. 1990. [See Karttunen, K., 1990.]
Basionym: *Hypnum flotowianum* Sendtner, 1841.

FABRONIA Raddi, 1808.

F. ciliaris var. *bartramii* (Grout) Grout, Moss Fl. N. Amer. 3: 228. 1934.
Basionym: *Fabronia bartramii* Grout, 1926.
Note: incorrectly cited as "Grout, Bryologist 43: 130. 1940" in *Index Muscorum*.

**F. ciliaris* subsp. *gymnostoma* Wijk, Margadant & Florschütz, Regnum Veg. 26: 269 [Ind. Musc. 2: 269]. 1962.
*invalid, orthographic variant (Article 75.1).
Correct name: *Fabronia gymnostoma* Sullivant & Lesquereux, 1856 [1857].

F. enervis Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 580. 1924.
Other use: *Struckia argentata* subsp. *enervis* (Brotherus) B. C. Tan, W. R. Buck & Ignatov, 1990 [1992].

F. sphaerocarpa Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(2): 53. f. a; pl. 2: f. 10. 1895.
Other use: *Rhizofabronia persoonii* var. *sphaerocarpa* (Dusén) Bizot ex Ochyra, 1991.

FALLACIELLA H. Crum, J. Hattori Bot. Lab. 69: 320. 1991. [See Crum, H., 1991a.]
Type: *Hypnum gracile* J. D. Hooker & Wilson, *F. gracilis* H. Crum, holotype.
Original placement: Sematophyllaceae.

FALLACIELLA, continued.
*F. **gracilis*** H. Crum, J. Hattori Bot. Lab. 69: 320. 1991. [See Crum, H., 1991a.]
Replaced name: *Hypnum gracile* W. J. Hooker & Wilson, 1844.
Blocking name: *Hypnum gracile* (Hedwig) Withering, 1801.
Note: new name, based on adoption of earlier epithet (Article 72.1 Note).

FIFEA H. Crum, J. Hattori Bot. Lab. 69: 319. 1991. [See Crum, H., 1991a.]
Type: *Camptochaete aciphylla* Dixon & Sainsbury in Sainsbury, *F. aciphylla* (Dixon & Sainsbury in Sainsbury) H. Crum, holotype.
Original placement: Lembophyllaceae.
*F. **aciphylla*** (Dixon & Sainsbury in Sainsbury) H. Crum, J. Hattori Bot. Lab. 69: 319. 1991. [See Crum, H., 1991a.]
Basionym: *Camptochaete aciphylla* Dixon & Sainsbury in Sainsbury, 1945.

FISSIDENS Hedwig, 1801.
*F. **acreanus*** Irmscher, Notizbl. Bot. Gart. Berlin-Dahlem 7: 534. 1921.
Type: "Brasilien: Rio Acre, im Walde des Seringal S. Francisco." *E. Ule 2494.* Mar 1909.
Note: not in *Index Muscorum.*
*F. **adianthoides*** subsp. ***subtaxifolius*** Kindberg, 1896.
*F. **aeruginosus*** J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 62. pl. 83: f. 5. 1854.
Other use: *Fissidens linearis* var. *aeruginosus* (J. D. Hooker & Wilson) Stone, 1991.
*F. **aeruginosus*** var. ***arcuatulus*** (Brotherus & Watts) Stone, J. Bryol. 16: 238. 1990. [See Stone, I. G., 1990a.]
Basionym: *Fissidens arcuatulus* Brotherus & Watts, 1915.
*F. **aeruginosus*** var. ***obscurirete*** (Brotherus & Paris) Stone, J. Bryol. 16: 241. 1990. [See Stone, I. G., 1990a.]
Basionym: *Fissidens obscurirete* Brotherus & Paris, 1909.
*F. **allenianus*** Bruggeman-Nannenga & Pursell, Bryologist 93: 332. f. 1–10. 1990. [See Bruggeman-Nannenga, M. A. & R. A. Pursell, 1990.]
Type: U.S.A. Florida: Dade Co., Everglades National Park, western end of Paradise Key, 2 mi. from Florida [route] 27, *Pursell 2915.* Holotype: PAC; isotype: U. Other indicated distribution: Bahama Islands, Belize, Cuba, Guatemala, Jamaica, Mexico, Puerto Rico.
Original placement: sect. *Amblyothallia.*
*F. **arcuatulus*** Brotherus & Watts, Proc. Linn. Soc. New South Wales 40: 368. 1915.
Other use: *Fissidens aeruginosus* var. *arcuatulus* (Brotherus & Watts) Stone, 1990.
F. **bipapillosus* Yang Chi-shang & Lin Shan-hsiung, Yushania 9: 32. f. 3. 1992. [See Yang, Chi-shang & Shan-hsiung Lin, 1992.]
*invalid, no Latin description (Article 36.1).
*F. **celatocognatus*** Pursell & Bruggeman-Nannenga, Caribbean J. Sci. 27: 187. f. 2. 1991. [See Pursell, R. A. & M. A. Bruggeman-Nannenga, 1991.]
Type: Puerto Rico. Cordillera Central, above Villalba, 800–1,000 m, *Pursell & Bruggeman-Nannenga 26815.* Holotype: PAC; isotype: U. Paratypes cited.
F. **choprai* Norkett in Tixier, Ann. Fac. Sci. Univ. Phnom Penh 4: 105. 1971.
*invalid, no Latin description (Article 36.1).
Note: not in *Index of Mosses, 1963–1989.*

FISSIDENS, continued.

*F. **cylindrothecus*** Pursell & Aguirre, Novon 1: 196. f. 1–13. 1991. [See Pursell, R. A. & J. Aguirre C., 1991.]
Type: Colombia. Cauca: Munic. de Guapi, Parque Natural Nacional Isla Gorgona, Camino Poblado-Playa Pizaro, 50 m, *Santana, Lozano & Rangel 737*. Holotype: COL; isotype: PAC.
Original placement: sect. *Aloma*.

*F. **decipiens*** var. ***mucronatus*** Breidler ex Limpricht, Laubm. Deutschl. 1: 452. 1887.
Other use: *Fissidens dubius* var. *mucronatus* (Breidler ex Limpricht) Karttunen, Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, 1992.

*F. **dendrophilus*** Bruggeman-Nannenga & Pursell, Bryologist 93: 335. f. 23–31. 1990. [See Bruggeman-Nannenga, M. A. & R. A. Pursell, 1990.]
Type: Brazil. Rio Grande do Sul: Portao, 40 m, *Sehnem 300*. Holotype: NY; isotype: FH-Bartram.
Original placement: sect. *Amblyothallia*.

*F. **dubius*** var. ***mucronatus*** (Breidler ex Limpricht) Karttunen, Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 120. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]
Basionym: *Fissidens decipiens* var. *mucronatus* Breidler ex Limpricht, 1887.

*F. **georgianus*** Irmscher, Notizbl. Bot. Gart. Berlin-Dahlem 7: 536. 1921.
Type: "Brasilien: Rio Branco, im Campwalde bei Sao Marcos." *E. Ule Herb. Bras. 2407*. Jun 1909. [Brazil] "Surumu, zwischen Felsen bei der Serra do Mel." *E. Ule Herb. Bras. 2406*. Aug 1909.
Note: not in *Index Muscorum*.

*F. **gymnostomus*** Bruggeman-Nannenga, Lindbergia 15: 140. f. 1. 1989 [1990]. [See Bruggeman-Nannenga, M. A., 1989 [1990].]
Type: Brazil. Minas Gerais: along road Araxa-Serra de Salitre, Municipio de Araxa, *Vital 6180 p.p.* Holotype: SP; isotypes: U, herb. Bruggeman-Nannenga. Paratypes cited.

*F. **hylophilus*** Irmscher, Notizbl. Bot. Gart. Berlin-Dahlem 7: 533. 1921.
Type: "Brasilien: Rio branco, an Baumstämmen im Walde der Serra do Mairary, um 1,100 m ü. M." *E. Ule Herb. Brasil. 2408*. Nov 1909.
Note: not in *Index Muscorum*.

*F. **hyophilus*** var. ***longiligulatus*** (Brotherus & Watts) Stone, J. Bryol. 16: 245. 1990. [See Stone, I. G., 1990b.]
Basionym: *Fissidens longiligulatus* Brotherus & Watts, 1915.

*F. **kinabaluensis*** Iwatsuki, J. Hattori Bot. Lab. 32: 269. f. 1. 1969.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Sosopodon, Kundasang, 1,350 m, *Iwatsuki 160*. Holotype: NICH.
Original placement: sect. *Semilimbidium*.
Note: the epithet was misspelled "*kinanaluensis*" in *Index of Mosses, 1969–1983*.

*F. **linearis*** var. ***aeruginosus*** (J. D. Hooker & Wilson) Stone, J. Bryol. 16: 404. 1991. [See Stone, I. G., 1991.]
Basionym: *Fissidens aeruginosus* J. D. Hooker & Wilson, 1854.

*F. **linearis*** var. ***obscurirete*** (Brotherus & Paris) Stone, J. Bryol. 16: 404. 1991. [See Stone, I. G., 1991.]
Basionym: *Fissidens obscurirete* Brotherus & Paris, 1909.

FISSIDENS, continued.

*F. **longiligulatus*** Brotherus & Watts, Proc. Linn. Soc. New South Wales 40: 367. 1915.
Other use: *Fissidens hyophilus* var. *longiligulatus* (Brotherus & Watts) Stone, 1990.

*F. **obscurirete*** Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 51A(17): 7. 1909.
Other use: *Fissidens aeruginosus* var. *obscurirete* (Brotherus & Paris) Stone, 1990, *Fissidens linearis* var. *obscurirete* (Brotherus & Paris) Stone, 1991.

*F. **panamensis*** Pursell & B. H. Allen, Bryologist 94: 214. f. 1–12. 1991. [See Pursell, R. A. & B. Allen, 1991.]
Type: Panama. Panamá: Isla Perico, SE of Fort Amador, vicinity of Panama City, near sea level, *Allen 4906*. Holotype: MO; isotypes: PAC, PMA.

*F. **pseudoclosteri*** Iwatsuki & S. S. Kumar, Hikobia 11: 133. f. 1. 1992. [See Iwatsuki, Z. & S. S. Kumar, 1992.]
Type: India. Uttar Pradesh, Jagiochak, below Naini Tal, 1,770 m, *Iwatsuki 269*. Holotype: HIRO.

*F. **subarboreus*** Brotherus & Potier de la Varde, Bull. Soc. Bot. France 74: 143. f. 40: 2. 1927.
Other use: *Moenkemeyera subarborea* (Brotherus & Potier de la Varde) Bizot in Bizot, Pierrot & Tixier, 1986-87 [1990].

*F. **surumuensis*** Irmscher, Notizbl. Bot. Gart. Berlin-Dahlem 7: 534. 1921.
Type: "Brasilien: Rio Branco, Surumu, an Baumstämmen in der Serra do Mel." *E. Ule 2409*. Sep 1909.

*F. **taxifolius*** fo. ***subtaxifolius*** (Kindberg) Lazarenko ex Bachurina & Melnichuk, 1976.
Note: not in *Index of Mosses, 1963–1987*.

*F. **terricola*** Irmscher, Notizbl. Bot. Gart. Berlin-Dahlem 7: 535. 1921.
Type: "Bolivia: Rio Acre, an einem Bache bei Cobija." *E. Ule Herb. Bras. 2492*. Jan 1912.
Note: not in *Index Muscorum*.

FLORSCHUETZIELLA Vitt, 1979.

*F. **scaberrima*** (Brotherus) Vitt, J. Hattori Bot. Lab. 49: 108. 1981.
Basionym: *Orthotrichum scaberrimum* Brotherus, 1929.
Note: not in *Index of Mosses, 1963–1989*.

FONTINALIS Hedwig, 1801.

*F. **redfearnii*** B. H. Allen, Bryologist 94: 201. f. 1–6. 1991. [See Allen, B., 1991.]
Type: U.S.A. Oklahoma: McCurtain Co., Cypress Creek, just N of Hwy. 3, T3S, R22E, Sec. 5, 34°00′N, 95°01′W, 243 m, *Allen & Redfearn (Fontinal. Exsicc. 77)*. Holotype: MO; isotypes: ALTA, BM, CANM, DUKE, LAF, MICH, NY, PAC, MICH, US. Paratype cited.

FORSSTROEMIA Lindberg, 1863.

*F. **canariensis*** (Renauld & Cardot) Enroth, J. Hattori Bot. Lab. 71: 79. 1992, "*Forrstroemia*." [See Enroth, J., 1992a.]
Basionym: *Thamnium canariense* Renauld & Cardot, 1902.

GAMMIELLA Brotherus in Engler & Prantl, 1908.

*G. **tonkinensis*** (Brotherus & Paris) B. C. Tan, Bryologist 93: 433. 1990. [See Tan, B. C., 1990.]
Basionym: *Clastobryum tonkinense* Brotherus & Paris, 1908.

*G. **touwii*** B. C. Tan, Bryologist 93: 432. f. 13–17. 1990. [See Tan, B. C., 1990.]
Type: Philippines. Mindanao: Bukidnon Prov., Mt. Kitanglad, 1,800 m, *Tan, Navarez & Amoroso 84-307*. Holotype: FH; isotypes: BM, H, L, NICH, NY.

*GLOBULINA (C. Müller) Brotherus in Engler & Prantl, 1902.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Globulina* Link, 1820.
Correct name: *Globulinella* Steere, 1946.
G. peruviana R. S. Williams, Bull. Torrey Bot. Club 43: 325 pl. 17: f. 8–15. 1916.
Other use: *Saitoella peruviana* (R. S. Williams) Menzel, 1992.

GLOSSADELPHUS Fleischer, 1923.
G. bolovensis Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 159. f. 2. 1970.
Type: Laos. Paksong, 1,200 m, *Tixier 4249*. Holotype: herbarium not indicated.
Note: not in *Index of Mosses, 1963–1989*.
G. ligulaefolius E. B. Bartram, Bryologist 49: 123. 1946.
Other use: *Taxiphyllum ligulaefolium* (E. B. Bartram) W. R. Buck, 1990.
*G. torrentium Tixier, Nat. Hist. Bull. Siam Soc. 23: 550. f. 2. 1970.
*invalid, holotype not indicated (Article 37.1).
Note: not in *Index of Mosses, 1963–1989*.

GLYPHOMITRIUM Bridel, 1818 [1819].
G. nymanianum Fleischer, Musci Buitenzorg 1: 372. f. 69. 1904.
Other use: *Hyophila nymaniana* (Fleischer) Menzel, 1992.

†GOMANKOVIA Ignatov, Palaeontographica. Abt. B. Palăophytol. 217: 156. 1990. [See Ignatov, M. S., 1990.]
Type: *G. latifolia* Ignatov, holotype.
Original placement: perhaps Funariales.
†***G. latifolia*** Ignatov, Palaeontographica. Abt. B. Palăophytol. 217: 156. f. 6; pl. 2: f. 28–29. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen, 1976 4552/K-3-25*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

GRADSTEINIA Ochyra, Trop. Bryol. 3: 19. f. 1–3. 1990. [See Ochyra, R., 1990d.]
Type: *G. andicola* Ochyra, holotype.
Original placement: Donrichardsiaceae.
G. andicola Ochyra, Trop. Bryol. 3: 19. f. 1–3. 1990. [See Ochyra, R., 1990d.]
Type: Colombia. Meta: Paramo de Sumapaz, 3,650 m, *Cleef 8236*. Holotype: COL; isotypes: BM, F, FLAS, H, KRAM, LPB, MENU, MO, NY, U.

GRIMMIA Hedwig, 1801.
G. amblyophylla C. Müller, Syn. Musc. Frond. 1: 779. 1849.
Other use: *Schistidium amblyophyllum* (C. Müller) Ochyra & Hertel, 1990.
G. britannica A. J. E. Smith, J. Bryol. 17: 272. 1992. [See Smith, A. J. E., 1992.]
Replaced name: *Grimmia robusta* Fergusson ex Braithwaite, 1872.
Blocking name: *Grimmia robusta* Nees & Hornschuch, 1827.
G. chenii Lin Shan-hsiung, Biol. Bull. Dept. Biol. Coll. Sci. Tunghai Univ. 60: 67. 1984.
Replaced name: *Grimmia himalayana* Chen Pan-chieh, 1962.
Blocking name: *Grimmia himalayana* Mitten, 1859.
Other use: *Schistidium chenii* (Lin Shan-hsiung) Cao Tong, Gao Chien & Zhao Jian-cheng, 1992.

GRIMMIA, continued.

G. curviseta Bouman, J. Bryol. 16: 379. f. 1. 1991. [See Bouman, A. C., 1991.]
Type: Spain. Canary Islands: Tenerife, Las Canadas del Teide, Degollada de Guajara, 2,400 m, *Dirkse RIN 005828*. Holotype: U; isotype: L. Paratypes cited.

G. erythraea (C. Müller in Brizi) Cufodontis, Oesterr. Bot. Z. 98: 227. 1951.
Basionym: *Guembelia erythraea* C. Müller in Brizi, 1893.
Note: not in *Index Muscorum*.

G. gracilis var. ***hyperborea*** H. Arnell, Ark. Bot. 15(5): 88. 1918.
Type: Siberia, Kap Tscheljuskin, *F. R. Kjellman s.n.* 1878.
Other use: *Schistidium strictum* fo. *hyperboreum* (H. Arnell) Savicz-Ljubitskaya & Smirnova, 1968.

G. heterophylla Kindberg in Macoun, Cat. Canad. Pl., Musci 6: 64. 1892.
Other use: *Schistidium heterophyllum* (Kindberg in Macoun) McIntosh in L. E. Anderson, H. Crum & W. R. Buck, 1990.

G. itatiaiensis Brotherus in C. Müller, Bull. Herb. Boissier 6: 108. 1898.
Type: Brazil. Serra Itatiaia: on rock, 1,800 m, *E. Ule 1829*. Mar 1894. Herbarium not specified by author.
Note: incorrectly cited as "Brotherus in Ule, Hedwigia 38(Beibl.): 58. 1899 nom. nud." in *Index Muscorum*.

****G. meridensis*** Vareschi, Fl. Paramos Venezuela 87. 1970.
*invalid, no Latin description (Article 36.1).
Note: not in *Index of Mosses, 1963–1989*.

****G. robusta*** Fergusson ex Braithwaite, J. Bot. 10: 196. pl. 124: f. 3. 1872.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia robusta* Nees & Hornschuch, 1827.
Correct name: *Grimmia britannica* A. J. E. Smith, 1992.

GUEMBELIA Hampe in C. Müller, 1846.

G. erythraea C. Müller in Brizi, Malpighia 7: 296. 1893.
Other use: *Grimmia erythraea* (C. Müller in Brizi) Cufodontis, 1951.

GYMNOSTOMUM Nees & Hornschuch in Nees, Hornschuch & Sturm, 1823, conserved name.

G. jacksharpii (H. Crum) B. H. Allen, Bryologist 93: 207. 1990. [See Allen, B. H., 1990a.]
Basionym: *Barbula jacksharpii* H. Crum, 1984.

HAGENIELLA Brotherus, 1910.

H. hattoriana B. C. Tan, Bryologist 93: 433. f. 18–22. 1990. [See Tan, B. C., 1990.]
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, summit trail below Ponduk Villosa, *Menzel et al. (BRYOTROP 4001)*. Holotype: B; isotypes: FH, NICH, NY.

*HARPIDIUM (Sullivant in A. Gray) Spruce, 1867.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Harpidium* Korber, 1855.
Correct name: *Drepanocladus* (C. Müller) G. Roth, 1899.

H. fluitans subsp. ***berggrenii*** C. E. O. Jensen, Meddel. Grønland 3: 322. 1887.
Other use: *Warnstorfia fluitans* var. *berggrenii* (C. E. O. Jensen) Ochyra, 1992.

HENNEDIELLA Paris, 1896.

H. austrogeorgica (Cardot) Blockeel, J. Bryol. 16: 191. 1990. [See Blockeel, T. L., 1990.]
Basionym: *Pottia austrogeorgica* Cardot, 1906.

HENNEDIELLA, continued.
H. stanfordensis (Steere) Blockeel, J. Bryol. 16: 191. 1990. [See Blockeel, T. L., 1990.]
Basionym: *Tortula stanfordensis* Steere, 1951.
HILDEBRANDTIELLA C. Müller, 1876.
H. guyanensis (Montagne) W. R. Buck, Brittonia 43: 97. 1991. [See Buck, W. R., 1991b.]
Basionym: *Neckera guyanensis* Montagne, 1856.
HIMANTOCLADIUM (Mitten) Fleischer, 1908.
H. sect. *Cyclophyllum* Enroth, Ann. Bot. Fenn. 29: 85. 1992. [See Enroth, J., 1992c.]
Type: *Neckera cyclophylla* C. Müller, *H. cyclophyllum* (C. Müller) Fleischer
HOLOMITRIUM Bridel, 1826, conserved name, "*Olomitrium*."
H. seramense H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 14: 393. f. 14–19. 1990. [See Akiyama, H., 1990a.]
Type: Indonesia [Moluccas]. Seram: C. Seram, Kecamatan Seram Utara, en route from Wae Huhu to Gunung Owae Puku, 2,080 m, *Akiyama C-8863*. Holotype: KYO.
H. sinuosum B. H. Allen, Trop. Bryol. 3: 65. f. 1–11. 1990. [See Allen, B., 1990b.]
Type: Panama. Bocas del Toro: vic. of Fortuna Dam, 850–950 m, *Allen 5648*. Holotype: MO; isotype: PMA.
Other indicated distribution: Colombia, Costa Rica, Venezuela.
HOMALIA W. P. Schimper, 1860, "*Omalia*."
H. auriculata Wilson in J. D. Hooker, Fl. Nov.-Zel. 2: 115. pl. 92: f. 4. 1854.
Other use: *Pendulothecium auriculatum* (Wilson in J. D. Hooker) Enroth & He Si, 1991.
H. pygmaea Brotherus, Nat. Pflanzenfam. 1(3): 849. 1906.
Replaced name: *Neckera pygmaea* Renauld & Cardot, 1893.
Blocking name: *Neckera pygmaea* Dozy & Molkenboer, 1844.
Other use: *Symphyodon pygmaeus* (Brotherus) He Si & Snider, 1992.
HOMALIODENDRON Fleischer, 1906.
H. piniforme (Bridel) Enroth, Nova Hedwigia 51: 551. 1990. [See Enroth, J., 1990b.]
Basionym: *Pilotrichum piniforme* Bridel, 1827.
HOMALOTHECIUM W. P. Schimper in B.S.G., 1851.
H. lutescens var. *fallax* (Philibert in Husnot) Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 120. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]
Basionym: *Camptothecium fallax* Philibert in Husnot, 1875.
HOOKERIA Smith, 1808, conserved name.
H. punctata J. D. Hooker & Wilson, London J. Bot. 3: 550. 1844.
Other use: *Pendulothecium punctatum* (J. D. Hooker & Wilson) Enroth & He Si, 1991.
H. punctata var. *oblongifolia* J. D. Hooker & Wilson, London J. Bot. 3: 550. 1844.
Other use: *Pendulothecium oblongifolium* (J. D. Hooker & Wilson) Enroth & He Si, 1991.
H. subsecunda Mitten, J. Linn. Soc., Bot. 12: 358. 1869.
Other use: *Callicostella subsecunda* (Mitten) B. C. Tan in B. Thiers, 1992.
HOOKERIOPSIS (Bescherelle) Jaeger, 1877.
H. guatemalensis E. B. Bartram, Bryologist 49: 120. 1946.
Other use: *Callicostella guatemalensis* (E. B. Bartram) Florschütz-de Waard, 1990.

HOOKERIOPSIS, continued.
H. steerei Griffin, J. Bryol. 14: 297. f. 1. 1986.
Other use: *Trachyxiphium steerei* (Griffin) Churchill, 1991.
HYGROAMBLYSTEGIUM Loeske, 1903, conserved name.
H. calcareum Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 221. f. 8: 23–30; 10. 1975 [1976].
Other use: *Amblystegium calcareum* (Kanda) Noguchi, 1991.
HYLOCOMIUM Bruch & W. P. Schimper in B.S.G., 1852.
H. indicum Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 299. f. 13. 1938.
Other use: *Miehea indica* (Dixon) Ochyra, 1991.
HYMENOSTOMUM R. Brown, 1819.
H. flavescens Britton in N. L. Britton & Millspaugh, Bahama Fl. 485. 1920.
Other use: *Weissia flavescens* (Britton in N. L. Britton & Millspaugh) W. D. Reese, 1991.
H. krassavinii Lazarenko, Žurn. Inst. Bot. Vseukrajins'k. Akad. Nauk 26-27: 193. 1938.
Other use: *Weissia krassavinii* (Lazarenko) Lazarenko ex Ochyra, 1988.
HYOPHILA Bridel, 1827.
H. cucullatifolia Gao Chien, Jia Xue-yi & Cao Tong, Bull. Bot. Res., Harbin 11(2): 29. f. 1–10. 1991. [See Gao Chein, Jia Xue-yi & Cao Tong, 1991.]
Type: China. Liaoning: Districtus Fengcheng Xian Mt. Fenghuangshan, 200 m, *Jia Xue-yi 890948*. Holotype: "Herb. Mus. Nat. Hist. Dalina"; isotype: "ISFSBH" [i.e. IFP].
H. nymaniana (Fleischer) Menzel, Willdenowia 22: 198. 1992. [See Menzel, M., 1992b.]
Basionym: *Glyphomitrium nymanianum* Fleischer, 1904.
HYPNELLA (C. Müller) Jaeger, 1877.
H. ambrosia M. A. Lewis & B. H. Allen, Novon 2: 355. f. 1–7. 1992. [See Lewis, M. & B. Allen, 1992.]
Type: Bolivia. Santa Cruz: Prov. Ichilo, Cerro Amboró, between upper Río Isama and summit, Parque Nacional de Amboró, 17°45′S, 63°39′W, 900 m, *Lewis 37820*. Holotype: LPB; isotypes: MO, NY. Paratypes cited.
H. guayanensis B. H. Allen & W. R. Buck in W. R. Buck, Mem. New York Bot. Gard. 64: 190. f. 6–13. 1990. [See Buck, W. R., 1990b.]
Type: Guyana. Upper Potaro River region, Mt. Wokomung base camp and vicinity, 5°05′N, 59°50′W, 1,070 m, *Boom & Samuels 9131*. Holotype: NY; isotypes: BRG, MO. Other indicated distribution: Venezuela.
HYPNUM Hedwig, 1801, conserved name.
H. subsect. *Thelidium* C. Müller, Linnaea 39: 466. 1875.
Other use: *Radulina* W. R. Buck & B. C. Tan, 1989 [1990].
H. brevifolium Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 541. 1867.
Other use: *Pseudocalliergon brevifolium* (Lindberg) Hedenäs, 1990 [1992].
H. bruchii Dozy & Molkenboer, Ann. Sci. Nat. Bot., sér. 3, 2: 306. 1844.
Other use: *Papillidiopsis bruchii* (Dozy & Molkenboer) W. R. Buck & B. C. Tan, 1989 [1990].
H. cossonii W. P. Schimper, Musci Eur. Nov. 3–4 (Monogr.): 5. pl. 5. 1866, "*cossoni*."
Other use: *Limprichtia cossonii* (W. P. Schimper) L. E. Anderson, H. Crum & W. R. Buck, 1990.

HYPNUM, continued.

H. erectiusculum Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 281. 1859.
Other use: *Breidleria erectiuscula* (Sullivant & Lesquereux) Hedenäs, 1990 [1992].

H. falcatum Bridel, Muscol. Recent. 2(2): 63. pl. 1: f. 6. 1801.
Other use: *Palustriella falcata* (Bridel) Hedenäs, 1992.

H. flotowianum Sendtner, Denkschr. Bayer. Bot. Ges. Regensburg 3: 146. 1841, "*flotovianum*."
Other use: *Cirriphyllum flotowianum* (Sendtner) Ochyra in Kuta, Ochyra & Przywara, 1990, *Eurhynchium flotowianum* (Sendtner) Karttunen, 1990.

H. fuciforme Bridel, Muscol. Recent. Suppl. 2: 135. 1812.
Other use: *Leptodon fuciformis* (Bridel) Enroth, 1992.

****H. gracile*** W. J. Hooker & Wilson, London J. Bot. 3: 553. 1844.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum gracile* (Hedwig) Withering, 1801.
Other use: *Fallaciella gracilis* H. Crum, 1991.

H. gratum Palisot de Beauvois, Prodr. Aethéogam. 64. 1805.
Other use: *Cyrto-hypnum gratum* (Palisot de Beauvois) W. R. Buck & H. Crum, 1990.

H. hamatum Dozy & Molkenboer, Ann. Sci. Nat. Bot., sér. 3, 2: 307. 1844.
Other use: *Radulina hamata* (Dozy & Molkenboer) W. R. Buck & B. C. Tan, 1989 [1990].

H. haplohymenium Harvey, J. Bot. (Hooker) 2: 21. 1840, "*haplophynemum*."
Replaced name: *Haplohymenium microphyllum* Schwägrichen, 1829.
Blocking name: *Hypnum microphyllum* Hedwig, 1801.
Other use: *Cyrto-hypnum haplohymenium* (Harvey) W. R. Buck & H. Crum, 1990.
Note: incorrectly cited from "London J. Bot." and dated from 1843 in *Index Muscorum* 3: 78. 1964.

H. humile Palisot de Beauvois, Prodr. Aethéogam. 65. 1805.
Other use: *Leptodictyum humile* (Palisot de Beauvois) Ochyra, 1981.

H. investe Mitten, Hooker's J. Bot. Kew Gard. Misc. 8: 355. 1856.
Other use: *Cyrto-hypnum investe* (Mitten) W. R. Buck & H. Crum, 1990.

H. kuripanum Dozy & Molkenboer in Zollinger, Syst. Verz. 32. 1855.
Other use: *Cyrto-hypnum kuripanum* (Dozy & Molkenboer in Zollinger) W. R. Buck & H. Crum, 1990.

H. lindbergii Mitten, J. Bot. 2: 123. 1864.
Replaced name: *Hypnum arcuatum* Lindberg, 1862.
Blocking name: *Hypnum arcuatum* Hedwig, 1801.
Other use: *Calliergonella lindbergii* (Mitten) Hedenäs, 1990 [1992].

H. littorale Hampe, Nuovo Giorn. Bot. Ital. 4: 287. 1872.
Other use: *Sclerohypnum littorale* (Hampe) B. C. Tan, 1991.

H. lonchophyllum Montagne, Syll. Gen. Sp. Crypt. 10. 1856.
Other use: *Sematophyllum lonchophyllum* (Montagne) Florschütz-de Waard, 1990.

H. luxurians Dozy & Molkenboer, Ann. Sci. Nat. Bot., sér. 3, 2: 307. 1844.
Other use: *Papillidiopsis luxurians* (Dozy & Molkenboer) W. R. Buck & B. C. Tan, 1989 [1990].

HYPNUM, continued.
H. lycopodioides Bridel, Muscol. Recent. Suppl. 2: 227. 1812.
Other use: *Pseudocalliergon lycopodioides* (Bridel) Hedenäs, 1990 [1992].
H. minutulum Hedwig, Sp. Musc. Frond. 260. 1801.
Other use: *Cyrto-hypnum minutulum* (Hedwig) W. R. Buck & H. Crum, 1990.
H. mittenohamatum B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992, "*mittenohamatus*." [See Thiers, B. M., 1992.]
Replaced name: *Stereodon hamatus* Mitten, 1869.
Blocking name: *Hypnum hamatum* Dozy & Molkenboer, 1844.
H. praecox Hedwig, Sp. Musc. Frond. 249. pl. 44: f. 11–14. 1801.
Other use: *Rhynchostegium pulchellum* var. *praecox* (Hedwig) McFarland, 1992.
H. pseudoinvolvens C. Müller, Linnaea 40: 285. 1876.
Other use: *Cyrto-hypnum pseudoinvolvens* (C. Müller) W. R. Buck & H. Crum, 1990.
H. scaberulum Montagne, London J. Bot. 3: 633. 1844.
Other use: *Radulina scaberula* (Montagne) W. R. Buck & B. C. Tan, 1989 [1990].
H. schistocalyx C. Müller, Syn. Musc. Frond. 2: 691. 1851.
Other use: *Cyrto-hypnum schistocalyx* (C. Müller) W. R. Buck & H. Crum, 1990.
H. schweinfurthii C. Müller, Linnaea 39: 462. 1875.
Other use: *Taxiphyllum schweinfurthii* (C. Müller) W. R. Buck, 1987.
H. strepsiphyllum Montagne, London J. Bot. 3: 632. 1844.
Other use: *Acroporium strepsiphyllum* (Montagne) B. C. Tan in Touw, 1992.
H. tamariscellum C. Müller, Bot. Zeitung (Berlin) 12: 573. 1854.
Other use: *Cyrto-hypnum tamariscellum* (C. Müller) W. R. Buck & H. Crum, 1990.
H. tenuicaule Spruce, Ann. Mag. Nat. Hist., ser. 2, 3: 283. 1849.
Other use: *Rhynchostegiella tenuicaulis* (Spruce) Karttunen, 1990.
H. versicolor Hornschuch ex C. Müller, Syn. Musc. Frond. 2: 494. 1851.
Other use: *Cyrto-hypnum versicolor* (Hornschuch ex C. Müller) W. R. Buck & H. Crum, 1990.
H. wallichii Bridel, Bryol. Univ. 2: 416. 1827.
Other use: *Pseudobarbella wallichii* (Bridel) Touw, 1992.
†IGNATIEVIA Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 164. 1990. [See Ignatov, M. S., 1990.]
Type: *I. papillosa* Ignatov, holotype.
Original placement: perhaps Dicranaceae.
†***I. papillosa*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 164. f. 13; pl. 5: f. 54–59. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/K-8-1*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

INOUETHUIDIUM R. Watanabe, J. Hattori Bot. Lab. 69: 44. 1991. [See Watanabe, R., 1991.]
Type: *Thuidium robbinsii* E. B. Bartram, *I. robbinsii* (E. B. Bartram) R. Watanabe, holotype.
Original placement: Thuidiaceae.
I. robbinsii (E. B. Bartram) R. Watanabe, J. Hattori Bot. Lab. 69: 45. 1991. [See Watanabe, R., 1991.]
Basionym: *Thuidium robbinsii* E. B. Bartram, 1961.

ISOCLADIELLA Dixon, 1931.
I. flagellifera (Sakurai) Lin Shan-hsiung, Yushania 3(2): 13. 1986.
Basionym: *Acroporium flagelliferum* Sakurai, 1934.
Note: not in *Index of Mosses, 1963–1989*.
I. surcularis (Dixon) B. C. Tan & Mohamed, Cryptog. Bryol. Lichénol. 11: 357. 1990. [See Tan, B. C. & H. Mohamed, 1990.]
Basionym: *Acroporium surculare* Dixon, 1924.

ISOPTERYGIUM Mitten, 1869.
I. acutifolium Ireland, Bryologist 93: 343. f. 1–9. 1990. [See Ireland, R. R., 1990.]
Type: Venezuela. Bolívar: Meseta de Jauan, Río Kanarakuni, N & NE Mision de Campamento Sanidad del Río Kanarakuni, 400 m, *Steyermark 97784*. Holotype: US.
I. alstonii E. B. Bartram, Bryologist 56: 168. 1953, "*alstoni*."
Other use: *Wijkia alstonii* (E. B. Bartram) Ireland, 1991.
I. elegans var. ***laetevirens*** Dixon & Luisier ex F. Koppe & Düll, Bryol. Beitr. 6: 45. 1986.
Other use: *Pseudotaxiphyllum laetevirens* (Dixon & Luisier ex F. Koppe & Düll) Hedenäs, 1992.
Note: not in *Index of Mosses, 1963–1989*; previously invalid, no Latin description (Article 36.1), in Persson, Commentat. Biol. 8(7): 14. 1941.
I. homomallifolium Redfearn, Bryologist 76: 440. f. 1–11. 1973.
Other use: *Pseudotaxiphyllum homomallifolium* (Redfearn) Ireland, 1991.
I. richardsii E. B. Bartram, Bryologist 44: 64. f. 1–6. 1941.
Other use: *Pseudotaxiphyllum richardsii* (E. B. Bartram) Ireland, 1991.

ISOTHECIUM Bridel, 1827.
I. atlanticum Hedenäs, J. Bryol. 17: 119. 1992 [12 May].
Note: not illegitimate, superfluous and incorrect when published; correct name in original context: *I. canariense* H. Winter.
I. pumilum W. J. Hooker & Wilson, Fl. Tasman. 2: 206. pl. 175: f. 7. 1859.
Other use: *Thamnobryum pumilum* (W. J. Hooker & Wilson) B. C. Tan, 1992.

JONESIOBRYUM Bizot & Pócs ex B. H. Allen & Pursell, Bryologist 94: 441. 1991. [See Allen, B. & R. A. Pursell, 1991.]
Type: *Jonesiobryum sphaerocarpum* Bizot ex B. H. Allen & Pursell, holotype.
Original placement: Rhachitheciaceae.
Note: invalid, holotype not designated (Article 37.1), in Bizot & Pócs, Egri Ho Si Minh Tanarkepzo Foisk. Fuz. 636 (Acta Acad. Paed. Agriensis n. s. 12): 444. 1974, and Bizot, Rev. Bryol. Lichénol. 42: 853. 1976.
J. cerradense Vital ex B. H. Allen & Pursell, Bryologist 94: 441. 1991. [See Allen, B. & R. A. Pursell, 1991.]
Type: "Brazil. São Paulo." *Vital 6619*. Holotype: SP; isotypes: BA, BM, FLAS, G, L, NICH, NY, PC.
Note: previously invalid, genus invalid (Article 43.1), in Vital, J. Bryol. 12: 383. f. 1–2. 1983.

JONESIOBRYUM, continued.

J. sphaerocarpum Bizot ex B. H. Allen & Pursell, Bryologist 94: 441. 1991. [See Allen, B. & R. A. Pursell, 1991.]
Type: "Nigeria. Niger: District of Abuja, Bonu." *E. W. Jones 1067.* Holotype: PC.
Note: previously invalid, basionym invalid (Article 33.2), Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 17. 1982, and, as *Jonesia sphaerocarpa*, invalid, genus invalid (Article 43.1), in Bizot in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 25. 1974.

J. termitarum Vital ex B. H. Allen & Pursell, Bryologist 94: 441. 1991. [See Allen, B. & R. A. Pursell, 1991.]
Type: "Brazil. São Paulo." *Vital 1715.* Holotype: SP; isotypes: BM, FH, FLAS, G, H, L, NICH, NY, PC, PRE.
Note: previously invalid, genus invalid (Article 43.1), in Vital, J. Bryol. 12: 389. f. 4. 1983.

LEIODONTIUM Brotherus in Handel-Mazzetti, 1929.

L. surculare (Dixon) W. R. Buck & B. C. Tan in B. C. Tan, J. Hattori Bot. Lab. 70: 95. 1991. [See Tan, B. C., 1991.]
Basionym: *Clastobryum surculare* Dixon, 1924.

LEPIDOZIA (Dumortier) Dumortier, 1835.

L. ceratophylla Mitten, J. Proc. Linn. Soc., Bot. 5: 103. 1860 [1861].
Other use: *Takakia ceratophylla* (Mitten) Grolle, 1963.

LEPTOBRYUM (B.S.G.) Wilson, 1855.

L. pyriforme fo. *multigemmiferum* M. F. Boiko, Ukrajins'k. Bot. Žurn. 47(1): 94. 1990. [See Boiko, M. F., 1990.]
Type: Ukraine: regio Chersonica, districtus Golopristanica, praedium saltuarium Burcutense, *Boiko s.n.* 1983. Holotype: KHER.

LEPTODICTYUM (W. P. Schimper) Warnstorf, 1906.

L. humile (Palisot de Beauvois) Ochyra, Fragm. Florist. Geobot. 26: 385. 1981.
Basionym: *Hypnum humile* Palisot de Beauvois, 1805.
Note: updated entry for *Index of Mosses, 1963–1989*; redundant combination in Crum, Mosses Great Lakes For. (ed. 3) 271. 1983, and Crum & Anderson, Bryologist 92: 533. 1989.

LEPTODON D. Mohr, 1803, conserved name.

L. fuciformis (Bridel) Enroth, J. Hattori Bot. Lab. 71: 89. 1992. [See Enroth, J., 1992a.]
Basionym: *Hypnum fuciforme* Bridel, 1812.

L. longisetus Montagne in Webb & Berthelot, Hist. Nat. Iles Canaries 3(3): 20. 1840.
Other use: *Cryptoleptodon longisetus* (Montagne in Webb & Berthelot) Enroth, 1992.

LEPTOHYMENIUM Schwägrichen, 1828, rejected name (Article 69) versus *Platygyrium* W. P. Schimper (1851).
Note: *Leptohymenium* may be restored when treated as distinct from *Platygyrium* (Article 14.6).

L. sharpii (H. Crum & L. E. Anderson) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 64. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Pterigynandrum sharpii* H. Crum & L. E. Anderson, 1967.

LESCURAEA Bruch & W. P. Schimper in B.S.G., 1851.

L. williamsii (Best) P. S. Wilson & Norris, Bryologist 92: 395. 1989.
Basionym: *Leskea williamsii* Best, 1903.
Note: not in *Index of Mosses, 1963–1989.*

LESKEA Hedwig, 1801.

L. ***involvens*** Hedwig, Sp. Musc. Frond. 218. 1801.
Other use: *Cyrto-hypnum involvens* (Hedwig) W. R. Buck & H. Crum, 1990.

L. ***leptoclada*** Taylor, London J. Bot. 6: 339. 1847.
Other use: *Cyrto-hypnum leptocladum* (Taylor) W. R. Buck & H. Crum, 1990.

L. ***minuscula*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 134. 1859.
Other use: *Cyrto-hypnum minusculum* (Mitten) W. R. Buck & H. Crum, 1990.

L. ***ramusculosa*** Mitten, J. Proc. Linn. Soc., Bot. 7: 161. 1863.
Other use: *Cyrto-hypnum ramusculosum* (Mitten) W. R. Buck & H. Crum, 1990.

L. ***recurvans*** Michaux, Fl. Bor.-Amer. 2: 311. 1803.
Other use: *Sematophyllum recurvans* (Michaux) Britton, 1904.

L. ***rupestris*** Berggren, 2 Afd. 3(7): 9. 10–13. 1866.
Other use: *Pseudoleskeella rupestris* (Berggren) Hedenäs & L. Söderström, 1991 [1992].

L. ***sparsifolia*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 135. 1859.
Other use: *Cyrto-hypnum sparsifolium* (Mitten) W. R. Buck & H. Crum, 1990.

L. ***squarrosa*** Michaux, Fl. Bor.-Amer. 2: 312. 1803.
Other use: *Sematophyllum recurvans* var. *squarrosum* (Michaux) Britton, 1904.

L. ***sublaevifolia*** Herzog, Repert. Spec. Nov. Regni Veg. Beih. 108: 10. 1938.
Type: India. "N.W.-Indien, West-Tschitral: Brumotul, Bumboret-Tal, im Wald auf Fels mit *Grimmia commutata*, ca. 1,900 m." *Collector not indicated.* Date not indicated. Herbarium not indicated.
Note: not in *Index Muscorum*.

L. ***williamsii*** Best, Bull. Torrey Bot. Club 30: 476. pl. 16: f. 55–68. 1903, "*williamsi*."
Other use: *Lescuraea williamsii* (Best) P. S. Wilson & Norris, 1989.

LESKEODON Brotherus in Engler & Prantl, 1907.

L. ***brevicuspidatus*** (E. B. Bartram) B. C. Tan & H. Robinson, Smithsonian Contr. Bot. 75: 27. 1990. [See Tan, B. & H. Robinson, 1990.]
Basionym: *Distichophyllum brevicuspidatum* E. B. Bartram, 1957.

L. ***robbinsii*** E. B. Bartram, Rev. Bryol. Lichénol. 30: 200. 1962.
Other use: *Daltonia robbinsii* (E. B. Bartram) B. C. Tan & H. Robinson, 1990.

L. ***seramensis*** H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 14: 409. f. 48–53. 1990. [See Akiyama, H., 1990a.]
Type: Indonesia [Moluccas]. Ceram: Central Seram, Kecamatan Tehoru, Saunulu-Wae Waya, 110–190 m, *[Akiyama] C-14646*. Holotype: KYO. Paratype cited.

LEUCOBRYUM Hampe, 1839.

L. ***aduncum*** var. ***scalare*** (C. Müller ex Fleischer) A. Eddy, Handb. Malesian Mosses 2: 11. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Leucobryum scalare* C. Müller ex Fleischer, 1904.
Note: not illegitimate, superfluous and incorrect when published; no correct name in original context; *L. scalare* var. *tjibodensis* Fleischer, 1904, and *L. scalare* var. *marschmeyer* Fleischer, 1904, were included as synonyms.

LEUCOBRYUM, continued.

*L. **arfakianum*** C. Müller ex Geheeb, Biblioth. Bot. 44: 5. pl. 3. 1898.
Other use: *Leucobryum sanctum* var. *arfakianum* (C. Müller ex Geheeb) A. Eddy, n.d. [1990].

*L. **fumarioli*** C. Müller, Abh. Naturwiss. Vereine Bremen 16: 498. 1900.
Other use: *Leucobryum seemannii* var. *fumarioli* (C. Müller) H. A. Miller, 1967.

*L. **sanctum*** (Nees ex Schwägrichen) Hampe, Linnaea 17: 316. 1843.
Basionym: *Dicranum sanctum* Nees ex Schwägrichen, 1827.
Note: *Index Muscorum,* earlier, and later works attribute this combination to "Linnaea 13: 42. 1839," where *Leucobryum* was established, but it was not made there; the basionym cited by Hampe is *Dicranum sanctum* Schwägrichen not *D. glaucum* var. *sanctum* Bridel.

*L. **sanctum*** var. ***arfakianum*** (C. Müller ex Geheeb) A. Eddy, Handb. Malesian Mosses 2: 15. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Leucobryum arfakianum* C. Müller ex Geheeb, 1898.
Note: not illegitimate, superfluous and incorrect when published; no correct name in original context; *L. papuense* var. *pendulum* Zanten, 1964, was included as a synonym.

*L. **scalare*** C. Müller ex Fleischer, Musci Buitenzorg 1: 143. 1904.
Other use: *Leucobryum aduncum* var. *scalare* (C. Müller ex Fleischer) A. Eddy, n.d. [1990].

*L. **seemannii*** var. ***fumarioli*** (C. Müller) H. A. Miller, J. Hattori Bot. Lab. 30: 272. 1967.
Basionym: *Leucobryum fumarioli* C. Müller, 1900.
Note: not in *Index of Mosses, 1963–1989.*

*L. **seemannii*** var. ***solfatarae*** (C. Müller) H. A. Miller, J. Hattori Bot. Lab. 30: 272. 1967.
Basionym: *Leucobryum solfatarae* C. Müller, 1900.
Note: not in *Index of Mosses, 1963–1989.*

*L. **solfatarae*** C. Müller, Abh. Naturwiss. Vereine Bremen 16(3): 500. 1900.
Other use: *Leucobryum seemannii* var. *solfatarae* (C. Müller) H. A. Miller, 1967.

*L. **subobtusifolium*** (Brotherus) B. H. Allen, Contr. Univ. Michigan Herb. 18: 129. 1992. [See Allen, B., 1992b.]
Basionym: *Ochrobryum subobtusifolium* Brotherus, 1900.

LEUCOLOMA Bridel, 1829, conserved name.

*L. **crosbyi*** LaFarge-England, Novon 2: 119. f. 1–12. 1992. [See LaFarge-England, C., 1992.]
Type: Madagascar. Diego Suarez: Montagne d'Ambre, Parc National, 10 km along trail between Petit Lac and Grand Lac, 12°34′S, 49°12′E, 1,200 m, *Crosby & Crosby 7167.* Holotype: MO; isotype: ALTA. Paratypes cited.

LEUCOPHANES Bridel, 1827.

*L. **octoblepharioides*** subsp. ***sepikii*** Enroth, Acta Bot. Fenn. 139: 98. f. 20: a–d. 1990. [See Enroth, J., 1990c.]
Type: Papua New Guinea. West Sepik: Frieda River, camp at Horse Creek, 400 m, *T. Koponen 34794.* Holotype: H; isotype: LAE.

LIMPRICHTIA Loeske, 1907.
L. cossonii (W. P. Schimper) L. E. Anderson, H. Crum & W. R. Buck, Bryologist 93: 463. 1990. [See Anderson, L. E., H. A. Crum & W. R. Buck, 1990.]
Basionym: *Hypnum cossonii* W. P. Schimper, 1866.
LORENTZIA Hampe, 1867.
L. bifaria (Bosch & Sande Lacoste) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 64. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Thuidium bifarium* Bosch & Sande Lacoste, 1865.
L. calcicola (Fleischer) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 64. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Pelekium calcicola* Fleischer, 1923.
L. tenuis (Fleischer) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 64. 1990, "*tenue*." [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Pelekium tenue* Fleischer, 1923.
L. velata (Mitten) W. R. Buck & H. Crum, Contr. Univ. Michigan Herb. 17: 65. 1990. [See Buck, W. R. & H. Crum, 1990.]
Basionym: *Pelekium velatum* Mitten, 1868.
MACROMITRIUM Bridel, 1819 [1818].
M. sect. *Reverberatum* W. R. Buck, Mem. New York Bot. Gard. 64: 189. 1990. [See Buck, W. R., 1990b.]
Type: *M. dubium* W. P. Schimper ex C. Müller
M. brachiatum W. J. Hooker & Wilson, Icon. Pl. 8: 746B. 1848, "*Macromitrion*."
Other use: *Desmotheca brachiata* (W. J. Hooker & Wilson) Vitt, 1990.
M. lebomboense Rooy, J. Bryol. 16: 209. f. 1. 1990. [See Rooy, J., van, 1990.]
Type: South Africa. Natal: Lebombo Mountains, near Nambulugwana, along road from Mkuze to Jonzini, 340 m, *van Rooy 227*. Holotype: PRE; isotypes: ALTA, C, MO. Paratypes cited.
M. leucoblastum C. Müller ex Brotherus in Schumann & Lauterbach, Fl. Schutzgeb. Südsee 87. 1901 [1900].
Type: Kaiser Wilhelmsland: Gofolfluss, *Kaernbach s.n.* Nov 1890.
Note: treated as invalid, no description, in *Index Muscorum* and attributed to "Nat. Pfl. 1(3): 490. 1903."
M. prorepens var. *aristata* Allison, Trans. Roy. Soc. New Zealand, Bot. 88: 10. 1960, "*proprepens*."
Type: New Zealand. Little Barrier Island, 300 feet, *Dingley s.n.* 1958. Holotype: herb. Allison; isotype: herb. Hodgson.
Note: not in *Index Muscorum*.
MAGUIREELLA W. R. Buck, Mem. New York Bot. Gard. 64: 193. 1990. [See Buck, W. R., 1990b.]
Type: *Neckera vulpina* Montagne, *M. vulpina* (Montagne) W. R. Buck, holotype.
Original placement: Sematophyllaceae.
M. vulpina (Montagne) W. R. Buck in W. R. Buck & Vital, Brittonia 44: 343. 1992. [See Buck, W. R. & D. M. Vital, 1992.]
Basionym: *Neckera vulpina* Montagne, 1835.
Note: previously invalid, basionym not cited (Article 33.2), in W. R. Buck, Mem. New York Bot. Gard. 64: 193. 1990.
MEIOTRICHUM (G. L. Smith) G. L. S. Merrill, Bryologist 95: 271. 1992. [See Merrill, G. L. S., 1992b.]
Basionym: *Polytrichastrum* sect. *Meiotrichum* G. L. Smith, 1971.

MEIOTRICHUM, continued.
M. lyallii (Mitten) G. L. S. Merrill, Bryologist 95: 271. 1992. [See Merrill, G. L. S., 1992b.]
Basionym: *Polytrichadelphus lyallii* Mitten, 1864.

METEORIDIUM (C. Müller) Manuel, 1977.
M. tenuissimum (W. J. Hooker & Wilson) M. A. Lewis, Trop. Bryol. 5: 41. 1992. [See Lewis, M., 1992.]
Basionym: *Cryphaea tenuissima* W. J. Hooker & Wilson, 1846.

METEORIUM (Bridel) Dozy & Molkenboer, 1848.
M. cucullatum Lin Shan-hsiung & Wu Sheng-hua in Wu Sheng-hua & Lin Shan-hsiung, Yushania 3(4): 10. pl. 4. 1986.
Type: China. Taiwan: Chiayi County, Wufeng Hsiang, Mt. Ali, ca. 2,300–2,400 m, *Lin 10924*. Holotype: herb. Tunghai Univ. Paratypes cited.
Note: not in *Index of Mosses, 1963–1989*.
M. penicillatum Dozy & Molkenboer, Prodr. Fl. Bryol. Surinam. [Natuurk. Verh. Holl. Maatsch. Wetensch. Haarlem, ser. 2, 10(3):] 45. pl. 11. 1854.
Other use: *Cryptopapillaria penicillata* (Dozy & Molkenboer) Menzel, 1992.

MICRODUS W. P. Schimper ex Bescherelle, 1872.
M. friedensis Norris & T. Koponen, Acta Bot. Fenn. 139: 11. 1990. [See Norris, D. H. & T. Koponen, 1990.]
Type: Papua New Guinea. West Sepik: Frieda River, 600–900 m, *Koponen 35022*. Holotype: H.

MIEHEA Ochyra, 1989.
M. indica (Dixon) Ochyra, J. Hattori Bot. Lab. 69: 124. 1991. [See Ochyra, R., 1991c.]
Basionym: *Hylocomium indicum* Dixon, 1938.

MIELICHHOFERIA Nees & Hornschuch, 1831.
M. pontevedrensis Luisier, Bróteria, Sér. Bôt. 23: 126. illustration. 1927.
Other use: *Schizymenium pontevedrense* (Luisier) C. Casas et al., 1989 [1990].

MITTENIA Lindberg, 1863.
M. plumula var. *gigantea* B. C. Tan, Bryologist 93: 433. f. 23, 26. 1990. [See Tan, B. C., 1990.]
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, *Tan 89-729*. Holotype: FH; isotypes: B, BM, H, L, NICH, NY.

MITTENOTHAMNIUM Hennings, 1902, conserved name.
M. deguchii Nishimura & Kanda, Bryologist 93: 275. f. 1–26. 1990. [See Nishimura, N. & H. Kanda, 1990.]
Type: Chile. Aisen: around Villa Pangal, 9 km N of Puerto Aisen, 100–150 m, *Deguchi 25810*. Holotype: TNS; isotypes: KOCH, NIPR, NY, SGO. Paratype cited.

MITTHYRIDIUM H. Robinson, 1975.
M. fasciculatum var. *cardotii* (Fleischer) A. Eddy, Handb. Malesian Mosses 2: 135. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Thyridium cardotii* Fleischer, 1904.
M. fasciculatum subsp. *obtusifolium* (Lindberg) Menzel, Willdenowia 19: 502. 1990. [See Menzel, M. & W. Schultze-Motel, 1990.]
Basionym: *Syrrhopodon obtusifolius* Lindberg, 1864 [1865].
M. wallisii var. *crassum* (Brotherus) Menzel, Willdenowia 19: 508. 1990. [See Menzel, M. & W. Schultze-Motel, 1990.]
Basionym: *Syrrhopodon crassus* Brotherus, 1898.

MOENKEMEYERA C. Müller, 1886.
M. subarborea (Brotherus & Potier de la Varde) Bizot in Bizot, Pierrot & Tixier, Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 46: 271. 1986-87 [1990]. [See Bizot, M., R. B. Pierrot & P. Tixier, 1986–1987 [1990].]
Basionym: *Fissidens subarboreus* Brotherus & Potier de la Varde, 1927.
†MUSCITES Brongniart, 1828.
†*M. ingodensis* Srebrodol'skaya, Trudy Vsesojuzn. Naučno-Issl. Geol. Inst. 204: 27. pl. 5: f. 2. 1980.
Other use: *Bryokhutuliinia ingodensis* (Srebrodol'skaya) Ignatov, 1992.
MYURELLA Bruch & W. P. Schimper in B.S.G., 1853.
M. apiculata var. *ciliata* Chałubińsky, Odbitka Pamiętn. Fizyjogr. Dział (Bot. Zool.) 6: 115. 1886.
Other use: *Myurella julacea* var. *ciliata* (Chałubińsky) Ochyra & Bednarek-Ochyra, 1991.
M. julacea var. *ciliata* (Chałubińsky) Ochyra & Bednarek-Ochyra, Fragm. Florist. Geobot. 35: 68. 1991. [See Ochyra, R. & H. Bednarek-Ochyra, 1991.]
Basionym: *Myurella apiculata* var. *ciliata* Chałubińsky, 1886.
MYURIUM W. P. Schimper, 1860.
M. acuminatum (Dixon & Potier de la Varde) He Si & Snider, Bryobrothera 1: 285. 1992. [See He Si & J. Snider, 1992.]
Basionym: *Symphyodon acuminatus* Dixon & Potier de la Varde, 1930.
NECKERA Hedwig, 1801, conserved name.
N. abyssinica C. Müller, Syn. Musc. Frond. 2: 71. 1850.
Other use: *Pylaisiobryum abyssinicum* (C. Müller) Cufodontis, 1951.
N. chrysoclada C. Müller, Syn. Musc. Frond. 2: 139. 1850.
Other use: *Cryptopapillaria chrysoclada* (C. Müller) Menzel, 1992.
N. fuscescens W. J. Hooker, Musci Exot. 2: 157. 1819.
Other use: *Cryptopapillaria fuscescens* (W. J. Hooker) Menzel, 1992.
N. guyanensis Montagne, Syll. Gen. Sp. Crypt. 24. 1856.
Other use: *Hildebrandtiella guyanensis* (Montagne) W. R. Buck, 1991.
N. mariei Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 2: 93. 1885.
Other use: *Caduciella mariei* (Bescherelle) Enroth, 1991.
N. oligocarpa subsp. *pterantha* C. Müller in Kindberg in Macoun, Cat. Canad. Pl., Musci 6: 162. 1892.
Other use: *Neckera pennata* var. *pterantha* (C. Müller in Kindberg in Macoun) Grout, 1902.
N. pennata var. *pterantha* (C. Müller in Kindberg in Macoun) Grout, Bryologist 5: 72. 1902.
Basionym: *Neckera oligocarpa* subsp. *pterantha* C. Müller in Kindberg in Macoun, 1892.
Note: not in *Index Muscorum*.
N. splendens Reinwardt & Hornschuch, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 14(2): 714. 1829.
Other use: *Symphysodontella splendens* (Reinwardt & Hornschuch) Touw & Magill in Touw, 1992.
N. undulatifolia (Tixier) Enroth, Ann. Bot. Fenn. 29: 249. 1992. [See Enroth, J., 1992d.]
Basionym: *Porothamnium undulatifolium* Tixier, 1966.
N. uroclada Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 122. 1859.
Other use: *Pinnatella uroclada* (Mitten) Enroth, 1992.

NECKERA, continued.
*N. **vulpina*** Montagne, Ann. Sci. Nat. Bot., sér. 2, 3: 204. pl. 4: f. 1. 1835.
Other use: *Maguireella vulpina* (Montagne) W. R. Buck in W. R. Buck & Vital, 1992.
NECKEROPSIS Reichardt, 1870.
*N. **calcutensis*** (Fleischer) Enroth, Acta Bryolichenol. Asiat. 2: 9. 1990 [1991]. [See Enroth, J., 1990 [1991].]
Basionym: *Pinnatella calcutensis* Fleischer, 1906.
NEOBARBELLA Noguchi, 1948.
*N. **comes*** var. ***pilifera*** (Brotherus & M. Yasuda) B. C. Tan, He Si & Isoviita, Cryptog. Bot. 2: 316. 1992. [See Tan, B. C., He Si & P. Isoviita, 1992.]
Basionym: *Barbella pilifera* Brotherus & M. Yasuda, 1926.
NEOLINDBERGIA Fleischer, 1908.
*N. **cladomnioides*** H. Akiyama in H. Akiyama, T. Koponen & Norris, Acta Bot. Fenn. 143: 82. f. 2: c, 4: a–e. 1991. [See Akiyama, H., T. Koponen & D. H. Norris, 1991.]
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Ulu Langanami, Mamut River, 3,800 feet, *Chew et al. 2164*. Holotype: BM.
*N. **veloirae*** H. Akiyama, Acta Bot. Fenn. 143: 84. 1991. [See Akiyama, H., T. Koponen & D. H. Norris, 1991.]
Replaced name: *Taiwanobryum robustum* Veloira, 1959.
Blocking name: *Neolindbergia robusta* Dixon, 1935.
*N. **vitiensis*** (E. B. Bartram) Enroth, Ann. Bot. Fenn. 28: 93. 1991. [See Enroth, J., 1991d.]
Basionym: *Pinnatella vitiensis* E. B. Bartram, 1950.
NOBREGAEA Hedenäs, Bryoph. Biblioth. 44: 124. 1992. [See Hedenäs, L., 1992b.]
Type: *N. latinervis* Hedenäs, holotype.
Original placement: Brachytheciaceae.
*N. **latinervis*** Hedenäs, Bryoph. Biblioth. 44: 124. f. 27. 1992. [See Hedenäs, L., 1992b.]
Type: Madeira. Ribeira da Achada de Marques, *Nóbrega 26*. 28 Sep 1946. Holotype: MADS. Paratypes cited.
NYHOLMIELLA Holmen & Warncke in Damsholt, Holmen & Warncke, Bot. Tidsskr. 65: 179. 1969.
Replaced name: *Stroemia* I. Hagen, 1908.
Blocking name: *Stroemia* Vahl, 1790.
Note: not in *Index of Mosses, 1963–1989*.
*N. **gymnostoma*** (Bruch ex Bridel) Holmen & Warncke in Damsholt, Holmen & Warncke, Bot. Tidsskr. 65: 179. 1969.
Basionym: *Orthotrichum gymnostomum* Bruch ex Bridel, 1827.
Note: not in *Index of Mosses, 1963–1989*.
*N. **obtusifolia*** (Bridel) Holmen & Warncke in Damsholt, Holmen & Warncke, Bot. Tidsskr. 65: 178. 1969.
Basionym: *Orthotrichum obtusifolium* Bridel, 1801.
Note: not in *Index of Mosses, 1963–1989*.
OCHROBRYUM Mitten, 1869.
*O. **sessile*** B. H. Allen, Contr. Univ. Michigan Herb. 18: 124. f. 35–46. 1992. [See Allen, B., 1992b.]
Type: Colombia. Meta: in *Remijia* forest west of Cordillera Oriental, *Steere 7654*. Holotype: MO; isotypes: H, NY. Other indicated distribution: Costa Rica, Panama, Venezuela.
*O. **subobtusifolium*** Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 10. 1900.
Other use: *Leucobryum subobtusifolium* (Brotherus) B. H. Allen, 1992.

OCTOBLEPHARUM Hedwig, 1801.

O. pulvinatum var. ***angustifolium*** Brotherus, Hedwigia 45: 263. 1906.

Note: incorrectly placed under *O. purpureobrunneum* in *Index Muscorum*.

****O. purpureobrunneum*** var. ***angustifolium*** Fubar.

*incorrectly placed under *O. purpureobrunneum* in *Index Muscorum*.

Correct name: *Octoblepharum pulvinatum* var. *angustifolium* Brotherus, 1906.

OLIGOTRICHUM A. P. de Candolle in Lamarck & A. P. de Candolle, 1805.

O. denudatum G. L. S. Merrill, Novon 1: 107. f. 1. 1991. [See Merrill, G. L. S., 1991.]

Type: Brazil. Minas Gerais: Mun. São Roque de Minas, Parque Nacional de Serra de Canastra, Cachoeira Casca D'Anta, 1,000 m, 20°18′S, 46°31′W, *Vital & Buck V-11941*. Holotype: NY; isotypes: KSC, MO, SP. Paratype cited.

ORTHODICRANUM (Bruch & W. P. Schimper) Loeske, 1910.

O. montanum fo. ***pulvinatum*** (Pfeffer) Lazarenko ex Ochyra, Fragm. Florist. Geobot. 24: 336. 1978.

Basionym: *Dicranum montanum* var. *pulvinatum* Pfeffer, 1869.

Note: not in *Index of Mosses, 1963–1989*.

ORTHODONTOPSIS Ignatov & B. C. Tan, J. Hattori Bot. Lab. 71: 169. 1992. [See Ignatov, M. S. & B. C. Tan, 1992.]

Type: *O. bardunovii* Ignatov & B. C. Tan, holotype.

Original placement: Bryaceae.

O. bardunovii Ignatov & B. C. Tan, J. Hattori Bot. Lab. 71: 169. pl. 1–4. 1992. [See Ignatov, M. S. & B. C. Tan, 1992.]

Type: Russia. Altai Mts., Altai State Reserve, Karakem River basin, Ayulyuyuzyuk Creek, *M. Ignatov s.n.* 20 Jun 1989. Holotype: MHA; isotypes: FH, IRK. Paratype cited.

ORTHOSTICHOPSIS Brotherus in Engler & Prantl, 1906.

O. praetermissa W. R. Buck, Brittonia 43: 98. f. 1–11. 1991. [See Buck, W. R., 1991b.]

Type: Peru. Infra verticum montis Guayrapurina ad arborum ramulos [3,000 m], *Spruce 1207*. Holotype: NY. Other indicated distribution: Lesser Antilles, Central and South America.

ORTHOTHECIUM Bruch & W. P. Schimper in B.S.G., 1852, conserved name.

O. hyalopiliferum Redfearn & B. H. Allen, Bryologist 94: 494. f. 1–8. 1991. [See Redfearn, P. L., Jr. & B. Allen, 1991.]

Type: China. Sichuan: Markam Co., ca. 15 km S of Zhuokeji, 3,120 m, *Redfearn 35166*. Holotype: MO; isotypes: DUKE, FH, H, HIRO, NY, PE, TENN. Paratypes cited.

ORTHOTHUIDIUM Norris & T. Koponen, 1985.

O. curtisetum Norris & T. Koponen, Acta Bot. Fenn. 131: 23. f. 8: a–f. 1985.

Other use: *Cyrto-hypnum curtisetum* (Norris & T. Koponen) W. R. Buck & H. Crum, 1990.

ORTHOTRICHUM Hedwig, 1801.

O. sect. ***Callistoma*** Podpěra ex Iwatsuki & A. J. Sharp, J. Hattori Bot. Lab. 33: 167. 1970.

Other use: *Orthotrichum* subgen. *Callistoma* (Podpěra ex Iwatsuki & A. J. Sharp) Lewinsky, 1992.

Note: treated as invalid, no Latin description (Article 36.1), in *Index Muscorum* and cited from Podpěra, Consp. Musc. Eur. 479. 1954.

ORTHOTRICHUM, continued.
O. subgen. ***Callistoma*** (Podpěra ex Iwatsuki & A. J. Sharp) Lewinsky, J. Hattori Bot. Lab. 72: 84. 1992, "*Callistomum*." [See Lewinsky, J., 1992.]
Basionym: *Orthotrichum* sect. *Callistoma* Podpěra ex Iwatsuki & A. J. Sharp, 1970.
O. armatum Lewinsky & Rooy, J. Bryol. 16: 69. f. 2–5. 1990. [See Lewinsky, J. & J. Van Rooy, 1990.]
Type: South Africa. Cape: Hogsback, summit ridge of Tor Doone above the forest station, *Oliver 6775*. Holotype: C.
O. dasymitrium Lewinsky in T. Koponen & Luo Jian-xin, Bryobrothera 1: 169. f. 1–2. 1992. [See Koponen, T. & Luo Jian-xin, 1992.]
Type: China. Xizang: Zayü Co., *Wang 6034 p.p.* Holotype: PE. Other indicated distribution: China (Sichuan).
O. erosum Lewinsky, J. Hattori Bot. Lab. 72: 32. f. 17. 1992. [See Lewinsky, J., 1992.]
Type: China. Shaanxi: Han-sun-fu, *Giraldi 1595*. Holotype: H; isotype: FI.
Original placement: sect. *Leiocarpa*.
O. gymnostomum Bruch ex Bridel, Bryol. Univ. 1: 782. 1827.
Other use: *Nyholmiella gymnostoma* (Bruch ex Bridel) Holmen & Warncke in Damsholt, Holmen & Warncke, 1969.
O. hookeri var. ***granulatum*** Lewinsky, J. Hattori Bot. Lab. 72: 20. 1992. [See Lewinsky, J., 1992.]
Type: Bhutan. Taba, Thimphu, *Long 7882*. Holotype: E. Other indicated distribution: India (Sikkim), China (Sichuan, Xizang, Yunnan), Nepal.
O. incurvomarginatum Lewinsky & Rooy, J. Bryol. 16: 67. f. 1, 4. 1990. [See Lewinsky, J. & J. Van Rooy, 1990.]
Type: South Africa. Cape: upper slopes of Mount Synnott, 7 km N of Clanwilliam, *Magill & Schelpe 4012*. Holotype: PRE; isotype: C.
O. laevigatum var. ***japonicum*** (Iwatsuki) Lewinsky, J. Hattori Bot. Lab. 72: 42. 1992. [See Lewinsky, J., 1992.]
Basionym: *Orthotrichum macounii* subsp. *japonicum* Iwatsuki, 1959.
O. macounii subsp. ***japonicum*** Iwatsuki, J. Hattori Bot. Lab. 21: 420. f. 1. 1959.
Other use: *Orthotrichum laevigatum* var. *japonicum* (Iwatsuki) Lewinsky, 1992.
O. obtusifolium Bridel, Muscol. Recent. 2(2): 23. 1801.
Other use: *Nyholmiella obtusifolia* (Bridel) Holmen & Warncke in Damsholt, Holmen & Warncke, 1969.
O. oreophilum Lewinsky & Rooy, J. Bryol. 16: 74. f. 4, 6. 1990. [See Lewinsky, J. & J. Van Rooy, 1990.]
Type: Lesotho. Kotisephola Pass between Sani Top and Mokhotlong, *van Rooy 3423*. Holotype: PRE; isotype: C.
O. pulchrum Lewinsky, J. Hattori Bot. Lab. 72: 20. f. 1–10. 1992. [See Lewinsky, J., 1992.]
Type: China. Sichuan: Ma Er Kang, *X. J. Li 1006*. Holotype: KUN. Paratype cited.
Original placement: sect. *Leiocarpa*.
O. scaberrimum Brotherus, Symb. Sin. 4: 70. pl. 1: f. 9. 1929.
Other use: *Florschuetziella scaberrima* (Brotherus) Vitt, 1981.

ORTHOTRICHUM, continued.
O. schoddei Lewinsky, J. Hattori Bot. Lab. 72: 34. f. 20. 1992. [See Lewinsky, J., 1992.]
Type: Indonesia [New Guinea]. Irian Barat: near Kepilam village, Lagaip Valley, Western Highlands, *Hoogland & Schodde 7288 p.p.* Holotype: FH; isotype: L.
Original placement: sect. *Leiocarpa.*
O. sinuosum Lewinsky, J. Hattori Bot. Lab. 72: 73. f. 42. 1992. [See Lewinsky, J., 1992.]
Type: China. Shaanxi: in monte Miao-wang-san, *Giraldi 1600.* Holotype: FI; isotype: BM. Paratypes cited.
Original placement: sect. *Diaphanum.*
O. subpumilum E. B. Bartram ex Lewinsky, J. Hattori Bot. Lab. 72: 59. f. 34. 1992. [See Lewinsky, J., 1992.]
Type: China. Jiangxi: Kuling, Chang-ko, *Chung 4038a.* Holotype: FH. Paratypes cited.
Original placement: sect. *Diaphanum.*
O. taiwanense Lewinsky, J. Hattori Bot. Lab. 72: 25. f. 12. 1992. [See Lewinsky, J., 1992.]
Type: China. Taiwan: Hsueh Shan Shan Mo, about 74 km above Tungshih, *Iwatsuki & Sharp 2988.* Holotype: NICH.
Original placement: sect. *Leiocarpa.*
O. tortifolium Lewinsky, J. Hattori Bot. Lab. 72: 23. f. 11. 1992. [See Lewinsky, J., 1992.]
Type: Bhutan. 2 km N of Byakar Dzong, Bumtang Chu, *Long 8300.* Holotype: E. Paratypes cited.
Original placement: sect. *Leiocarpa.*
O. tristriatum Lewinsky, Lindbergia 15: 70. 1989 [1990]. [See Lewinsky, J., 1989 [1990].]
Type: Chile. Renaico, *Dusén 332.* Holotype: S; isotype: NY.
Note: previously invalid, holotype not indicated (Article 37.1), in Lindbergia 10: 77. 1984.

OZOBRYUM G. L. S. Merrill, Novon 2: 255. 1992. [See Merrill, G. L. S., 1992a.]
Type: *O. ogalalense* G. L. S. Merrill, holotype.
Original placement: Pottiaceae.
O. ogalalense G. L. S. Merrill, Novon 2: 255. f. 1–2. 1992. [See Merrill, G. L. S., 1992a.]
Type: U.S.A. Kansas: Decatur County, south fork of Sappa Creek, 25 km SW of Oberlin, 39°40′N, 100°43′W, 800 m, *Wranosky 62.* Holotype: KSC; isotypes: DUKE, MICH, MO.

†PALAEOSPHAGNUM Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 177. 1990. [See Ignatov, M. S., 1990.]
Type: *P. meyenii* Ignatov, holotype.
Original placement: perhaps Sphagnaceae.
†*P. meyenii* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 177. f. 24; pl. 7: f. 89–92. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage, Upper Permian, *Gomankov, Agnatiev & Meyen 4335/412-2-3.* Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

PALUSTRIELLA Ochyra, 1989.
P. falcata (Bridel) Hedenäs, Bryoph. Biblioth. 44: 136. 1992. [See Hedenäs, L., 1992b.]
Basionym: *Hypnum falcatum* Bridel, 1801.

PAPILLARIA (C. Müller) C. Müller in Ångström, 1876, conserved name.

P. crispifolia Brotherus & Geheeb, Biblioth. Bot. 44: 19. 17. 1898.
Other use: *Aerobryopsis crispifolia* (Brotherus & Geheeb) Menzel, 1992.

P. feae C. Müller ex Fleischer, Musci Buitenzorg 3: 761. 1908.
Other use: *Cryptopapillaria feae* (C. Müller ex Fleischer) Menzel, 1992.

P. zeloflexicaulis Streimann, J. Hattori Bot. Lab. 69: 247. f. 3.7, 6.8, 7.8, 8.8, 9.18–21, 24–26, 28.3. 1991. [See Streimann, H., 1991.]
Type: Australia. New South Wales: Richmond River, *Moore s.n.* Holotype: NY; isotype: BM.

PAPILLIDIOPSIS (Brotherus in Engler & Prantl) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 11. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Trichosteleum* sect. *Papillidiopsis* Brotherus in Engler & Prantl, 1908.
Original placement: Sematophyllaceae.

P. bruchii (Dozy & Molkenboer) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 12. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Hypnum bruchii* Dozy & Molkenboer, 1844.

P. complanata (Dixon) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 12. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Acroporium complanatum* Dixon, 1924.

P. koponenii B. C. Tan, Bryologist 93: 437. f. 29–36. 1990. [See Tan, B. C., 1990.]
Type: Indonesia [Lesser Sunda Islands]. West Flores: Manggarai Prov., Golo Lusang, S of Ruteng, 1,830–1,850 m, *Touw & Snoek 23173*. Holotype: L; isotype: FH. Other indicated distribution: Philippines (Mindanao).

P. luxurians (Dozy & Molkenboer) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 12. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Hypnum luxurians* Dozy & Molkenboer, 1844.

P. macrosticta (Brotherus & Paris) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 12. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Trichosteleum macrostictum* Brotherus & Paris, 1902.

P. malesiana W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 13. f. 1–15. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Type: Philippines. Mindanao: Agusan Norte, Cabadbaran, western slope of Mt. Hilong-Hilong, trail from Bo. San Antonio to summit, 2,000 m, *Tan & Navarex 84-412B*. Holotype: NY; isotypes: L, NICH. Other indicated distribution: Malaysia.

P. papillata (Zanten) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 13. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Acanthocladium papillatum* Zanten, 1964.

P. ramulina (Thwaites & Mitten) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 13. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Sematophyllum ramulinum* Thwaites & Mitten, 1873.

P. ramulina var. ***voluta*** (Mitten) B. C. Tan, J. Hattori Bot. Lab. 70: 100. 1991. [See Tan, B. C., 1991.]
Basionym: *Chaetomitrium volutum* Mitten, 1859.

PARANAPIACABAEA W. R. Buck & Vital, Brittonia 44: 339. 1992. [See Buck, W. R. & D. M. Vital, 1992.]
Type: *P. paulista* W. R. Buck & Vital.
Original placement: Sematophyllaceae.
P. paulista W. R. Buck & Vital, Brittonia 44: 339. f. 1–8. 1992. [See Buck, W. R. & D. M. Vital, 1992.]
Type: Brazil. São Paulo: Mun. Guapiara, Serra Paranapiacaba, Fazenda Intervales, slopes of Morro do Mirante, 24°16′S, 48°25′W, 800–1,000 m, *Vital & Buck 20488*. Holotype: SP; isotypes: FH, MO, NY.

PARATHAMNIUM (Fleischer) Ochyra, Fragm. Florist. Geobot. 36: 77. 1991. [See Ochyra, R., 1991b.]
Basionym: *Thamnium* sect. *Parathamnium* Fleischer, 1908.
P. ellipticum (Bosch & Sande Lacoste) Ochyra, Fragm. Florist. Geobot. 36: 77. 1991. [See Ochyra, R., 1991b.]
Basionym: *Porotrichum ellipticum* Bosch & Sande Lacoste, 1863.
P. negrosense (E. B. Bartram) Ochyra, Fragm. Florist. Geobot. 36: 77. 1991. [See Ochyra, R., 1991b.]
Basionym: *Thamnium negrosense* E. B. Bartram, 1939.

PELEKIUM Mitten, 1868.
P. calcicola Fleischer, Musci Buitenzorg 4: 1511. f. 240. 1923.
Other use: *Lorentzia calcicola* (Fleischer) W. R. Buck & H. Crum, 1990.
P. tenue Fleischer, Musci Buitenzorg 4: 1515. 1923.
Other use: *Lorentzia tenuis* (Fleischer) W. R. Buck & H. Crum, 1990.
P. velatum Mitten, J. Linn. Soc., Bot. 10: 176. pl. 6: f. c. 1868.
Other use: *Lorentzia velata* (Mitten) W. R. Buck & H. Crum, 1990.

PENDULOTHECIUM Enroth & He Si, New Zealand J. Bot. 29: 7. 1991. [See Enroth, J. & He Si, 1991.]
Type: *Homalia auriculata* Wilson, *P. auriculatum* (Wilson in J. D. Hooker) Enroth & He Si, holotype.
Original placement: Neckeraceae.
P. auriculatum (Wilson in J. D. Hooker) Enroth & He Si, New Zealand J. Bot. 29: 14. 1991. [See Enroth, J. & He Si, 1991.]
Basionym: *Homalia auriculata* Wilson in J. D. Hooker, 1854.
P. oblongifolium (J. D. Hooker & Wilson) Enroth & He Si, New Zealand J. Bot. 29: 10. 1991. [See Enroth, J. & He Si, 1991.]
Basionym: *Hookeria punctata* var. *oblongifolia* J. D. Hooker & Wilson, 1844.
P. punctatum (J. D. Hooker & Wilson) Enroth & He Si, New Zealand J. Bot. 29: 12. 1991. [See Enroth, J. & He Si, 1991.]
Basionym: *Hookeria punctata* J. D. Hooker & Wilson, 1844.

PHASCUM Hedwig, 1801.
P. cuspidatum var. ***arcuatum*** Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991. [See Herrnstadt, I., C. C. Heyn & M. R. Crosby, 1991.]
Type: Israël. Upper Galilee: Mt. Meron, 1,200 m, *Herrnstadt & Crosby 78-48-3*. Holotype: HUJ; isotype: MO. Paratype cited.
P. cuspidatum var. ***marginatum*** Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991. [See Herrnstadt, I., C. C. Heyn & M. R. Crosby, 1991.]
Type: Israël. Sharon Plain: south of entrance to Nordia, 500 m, *Herrnstadt & Boaz 1986*. Holotype: HUJ.

PHASCUM, continued.
P. fosbergii (E. B. Bartram) J. Guerra in J. Guerra et al., J. Bryol. 16: 59. 1990. [See Guerra, J., J. J. Martínez, R. M. Ros & J. S. Carrión, 1990.]
Basionym: *Pottia fosbergii* E. B. Bartram, 1930.
P. galilaeum Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991. [See Herrnstadt, I., C. C. Heyn & M. R. Crosby, 1991.]
Type: Israël. Upper Galilee: vicinity of Gush Halav, 800 m, *Crosby & Herrnstadt 79-93-1*. Holotype: HUJ; isotype: MO. Paratype cited.
P. longipes J. Guerra, J. J. Martínez & Ros in J. Guerra et al., J. Bryol. 16: 55. f. 1–2. 1990. [See Guerra, J., J. J. Martínez, R. M. Ros & J. S. Carrión, 1990.]
Type: Spain. Almería: Sorbas, near Gafares, Lomilla de las Colmenas, 200 m, *Martínez & Ros (Bryoth. MUB 3068)*. 1988. Holotype: MUB. Paratypes cited.
PHILONOTIS Bridel, 1827.
P. buckii Griffin, Bryologist 94: 427. f. 1–10. 1991. [See Griffin, D., III, 1991.]
Type: Mexico. Chiapas: SW side of Cerro Mozotal, 11 km NW of junction to Motozintla, *Breedlove & Almeda 58131*. Holotype: CAS; isotype: FLAS.
PHYLLODON Bruch & W. P. Schimper in B.S.G., 1851.
P. abruptus (Mitten) B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Thiers, B. M., 1992.]
Basionym: *Callicostella abrupta* Mitten, 1864.
PILOPOGON Bridel, 1826.
P. guadalupensis (Bridel) Frahm, Fl. Neotrop. 54: 206. 1991, "*guadeloupensis*." [See Frahm, J.-P., 1991c.]
Basionym: *Dicranum guadalupense* Bridel, 1806.
PILOTRICHUM Palisot de Beauvois, 1804.
P. capillaceum Hornschuch in C. Martius, Fl. Bras. 1(2): 58. 1840.
Other use: *Aerolindigia capillacea* (Hornschuch in C. Martius) Menzel, 1991, *Rhynchostegiella capillacea* (Hornschuch in C. Martius) Visnadi & B. H. Allen, 1991.
P. piniforme Bridel, Bryol. Univ. 2: 260. 1827.
Other use: *Homaliodendron piniforme* (Bridel) Enroth, 1990.
PINNATELLA Fleischer, 1906.
P. calcutensis Fleischer, Hedwigia 45: 84. 1906.
Other use: *Neckeropsis calcutensis* (Fleischer) Enroth, 1990 [1991].
P. uroclada (Mitten) Enroth, Ann. Bot. Fenn. 29: 87. 1992. [See Enroth, J., 1992c.]
Basionym: *Neckera uroclada* Mitten, 1859.
P. vitiensis E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 20: 29. 1950.
Other use: *Neolindbergia vitiensis* (E. B. Bartram) Enroth, 1991.
*PIREA Cardot, 1894.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pirea* Th. Durand, 1888.
Correct name: *Pireella* Cardot, 1913.
P. cavifolia Cardot & Herzog in Cardot, Rev. Bryol. 38: 39. 1911.
Other use: *Porotrichum cavifolium* (Cardot & Herzog in Cardot) Magill & B. H. Allen, 1992.
PLAGIOBRYUM Lindberg, 1863.
P. demissum subsp. *hultenii* Ochi & Persson, Svensk Bot. Tidskr. 57: 239. f. 1. 1963.
Other use: *Plagiobryum hultenii* (Ochi & Persson) Hedderson, 1990.

PLAGIOBRYUM, continued.
P. duthiei Hedderson & Harold, Lindbergia 16: 51. f. 1. 1990 [1991]. [See Hedderson, T. A. & A. S. Harold, 1990 [1991].]
Type: Nepal. Western Nepal: Nampah Gadh, 11,000–12,000 feet, *Duthie 634b*. Holotype: H-Brotherus; isotypes: NY, herb. Hedderson. Paratype cited.
P. hultenii (Ochi & Persson) Hedderson, Lindbergia 15: 162. 1990. [See Hedderson, T. A., 1990.]
Basionym: *Plagiobryum demissum* subsp. *hultenii* Ochi & Persson, 1963.

PLAGIOMNIUM T. Koponen, 1968.
****P. cuspidatum*** var. ***trichomanes*** Noguchi, Check List Mosses Japan 20. 1974.
*invalid, basionym not cited (Article 33.2).
Note: not in *Index of Mosses, 1963–1989*.

PLAGIOPUS Bridel, 1826.
P. oederianus var. ***alpinus*** (Schwägrichen) Ochyra, J. Hattori Bot. Lab. 64: 341. 1988, "*oederiana*." [See Ochyra, 1988.]
Basionym: *Bartramia oederi* var. *alpina* Schwägrichen, 1816.
Note: not in *Index of Mosses, 1963–1989*; redundant combination in L. Söderström & Hedenäas in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 121. 1992.

PLAGIOTHECIUM Bruch & W. P. Schimper in B.S.G., 1852.
P. novae-valesiae Brotherus, Proc. Linn. Soc. New South Wales 41: 595. 1916.
Other use: *Ectropothecium novae-valesiae* (Brotherus) Ireland, 1992.
****P. ovatifolium*** Wijk, Margadant & Florschütz, Regnum Veg. 48: 98 [Ind. Musc. 4: 98]. 1967.
*invalid, orthographic variant (Article 75.1).
Correct name: *Plagiothecium ovalifolium* Cardot, 1905.

PLATYDICTYA Berkeley, 1863.
****P. perminutum*** B. H. Allen in Ireland, Caldasia 16(78): 275. 1991. [See Ireland, R. R., 1991.]
*invalid, basionym not cited (Article 33.2).

POGONATUM Palisot de Beauvois, 1804.
P. alpinum var. ***sylvaticum*** (Menzies) Lindberg, Bot. Not. 1867: 130. 1867.
Basionym: *Polytrichum sylvaticum* Menzies, 1802.
Note: redundant combination in Lawton, Moss Fl. Pacific Northwest 37. 1971.

POHLIA Hedwig, 1801.
P. subgen. ***Nyholmiella*** A. J. Shaw, Canad. J. Bot. 62: 225. 1984.
Type: *Brachymenium papillosum* C. Müller ex Jaeger, *P. papillosa* (C. Müller ex Jaeger) Brotherus
Note: not in *Index of Mosses, 1963–1989*.
P. caespitosa (Hoppe & Hornschuch) Lazarenko in Lazarenko, Vysotskaya & Lesnyak, Atlas Kromosm Listv. Mkhov SSSR 53. 1971.
Basionym: *Webera caespitosa* Hoppe & Hornschuch, 1819.
Note: not in *Index of Mosses, 1963–1989*.

POLYTRICHADELPHUS (C. Müller) Mitten, 1859.
P. lyallii Mitten, J. Proc. Linn. Soc., Bot. 8: 49. pl. 8. 1864.
Other use: *Meiotrichum lyallii* (Mitten) G. L. S. Merrill, 1992.

POLYTRICHASTRUM G. L. Smith, 1971.
P. sect. ***Aporotheca*** (Limpricht) G. L. S. Merrill, Bryologist 95: 271. 1992. [See Merrill, G. L. S., 1992b.]
Basionym: *Polytrichum* subgen. *Aporotheca* Limpricht, 1893.

POLYTRICHASTRUM, continued.
P. sect. ***Meiotrichum*** G. L. Smith, Mem. New York Bot. Gard. 21(3): 40. 1971.
Other use: *Meiotrichum* (G. L. Smith) G. L. S. Merrill, 1992.
P. appalachianum (L. E. Anderson) G. L. S. Merrill, Bryologist 95: 271. 1992. [See Merrill, G. L. S., 1992b.]
Basionym: *Polytrichum appalachianum* L. E. Anderson, 1987.
P. papillatum G. L. Smith, J. Hattori Bot. Lab. 38: 633. f. 12–24. 1974.
Other use: *Polytrichum papillatum* (G. L. Smith) L. E. Anderson, H. Crum & W. R. Buck, 1990.
P. sexangulare var. ***vulcanicum*** (C. E. O. Jensen in Grønlund) G. L. S. Merrill, Bryologist 95: 270. 1992. [See Merrill, G. L. S., 1992b.]
Basionym: *Polytrichum sexangulare* var. *vulcanicum* C. E. O. Jensen in Grønlund, 1896.

POLYTRICHUM Hedwig, 1801.
P. subgen. ***Aporotheca*** Limpricht, Laubm. Deutschl. 2: 615. 1893.
Other use: *Polytrichastrum* sect. *Aporotheca* (Limpricht) G. L. S. Merrill, 1992.
P. appalachianum L. E. Anderson, Bryologist 90: 1. f. 1–7. 1987.
Other use: *Polytrichastrum appalachianum* (L. E. Anderson) G. L. S. Merrill, 1992.
P. papillatum (G. L. Smith) L. E. Anderson, H. Crum & W. R. Buck, Bryologist 93: 466. 1990. [See Anderson, L. E., H. A. Crum & W. R. Buck, 1990.]
Basionym: *Polytrichastrum papillatum* G. L. Smith, 1974.
P. sexangulare var. ***vulcanicum*** C. E. O. Jensen in Grønlund, Bot. Tidsskr. 20: 109. 1896.
Other use: *Polytrichastrum sexangulare* var. *vulcanicum* (C. E. O. Jensen in Grønlund) G. L. S. Merrill, 1992.

POROTHAMNIUM Fleischer, 1908.
P. comorense var. ***scioanum*** (Brizi) Cufodontis, Oesterr. Bot. Z. 98: 237. 1951.
Basionym: *Neckera scioana* Brizi, 1893.
Note: not in *Index Muscorum*.
P. undulatifolium Tixier, Rev. Bryol. Lichénol. 34: 149. f. 14. 1966.
Other use: *Neckera undulatifolia* (Tixier) Enroth, 1992.

POROTRICHUM (Bridel) Hampe, 1863.
P. callicostelloides Brotherus ex Thériot, Revista Chilena Hist. Nat. 21: 17. 6 f. 1. 1917.
Other use: *Chileobryon callicostelloides* (Brotherus ex Thériot) Enroth, 1992.
****P. cavifolium*** (Cardot & Herzog in Cardot) Magill & B. H. Allen, Novon 2: 123. 1992. [See Magill, R. E. & B. Allen, 1992.]
*illegitimate, later homonym (Article 64.1).
Basionym: *Pirea cavifolia* Cardot & Herzog in Cardot, 1911.
Earlier name: *Porotrichum cavifolium* Brotherus, 1917.
P. ellipticum Bosch & Sande Lacoste, Bryol. Jav. 2: 70. pl. 190. 1863.
Other use: *Parathamnium ellipticum* (Bosch & Sande Lacoste) Ochyra, 1991, *Thamnobryum ellipticum* (Bosch & Sande Lacoste) Nieuwland, 1917.

POTAMIUM Mitten, J. Linn. Soc., Bot. 12: 472. 1869.
P. pacimoniense Spruce ex Mitten, J. Linn. Soc., Bot. 12: 474. 1869.
Other use: *Sematophyllum pacimoniense* (Spruce ex Mitten) Florschütz-de Waard, 1990 [1 Dec].

POTTIA (Reichenbach) Fürnrohr, 1829.
P. affinis (W. J. Hooker & Taylor) Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991. [See Herrnstadt, I., C. C. Heyn & M. R. Crosby, 1991.]
Basionym: *Weissia affinis* W. J. Hooker & Taylor, 1818.
P. austrogeorgica Cardot, Bull. Herb. Boissier, sér. 2, 6: 5. 1906.
Other use: *Hennediella austrogeorgica* (Cardot) Blockeel, 1990.
P. fosbergii E. B. Bartram, Bryologist 33: 18. illustration. 1930.
Other use: *Phascum fosbergii* (E. B. Bartram) J. Guerra in J. Guerra et al., 1990.
POWELLIA Mitten, 1868 [1869].
P. macromitrioides H. Akiyama, Acta Phytotax. Geobot. 41: 131. f. 1–7. 1990. [See Akiyama, H., 1990b.]
Type: Indonesia [Moluccas]. Seram: Rumah Sokat Batu near Sawai, Kecamatan Seram Utara, 230 m, *Akiyama C-9930*. Holotype: KYO; isotypes: BO, NY.
†**PROTOÖCHYRAEA** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 160. 1990.
Type: *P. polymorpha* Ignatov, holotype.
†*P. polymorpha* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 160. f. 11; pl. 3: f. 37–40, pl. 4: f. 41–51. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/322-10-9*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.
PSEUDOBARBELLA Noguchi, 1947.
P. wallichii (Bridel) Touw, J. Hattori Bot. Lab. 71: 335. 1992. [See Touw, A., 1992.]
Basionym: *Hypnum wallichii* Bridel, 1827.
PSEUDOCALLIERGON (Limpricht) Loeske, 1907.
P. angustifolium Hedenäs, Lindbergia 16: 85. f. 1. 1990 [1992], "*augustifolium*." [See Hedenäs, L., 1990 [1992]a.]
Type: Sweden. Jämtland, Frostviken, the valley between Mt. Gervenåkko's E and W peaks, 980 m, *Hedenäs J88-559*. Holotype: S; isotypes: FH, LE. Other indicated distribution: Finland, Norway.
P. brevifolium (Lindberg) Hedenäs, Lindbergia 16: 89. 1990 [1992]. [See Hedenäs, L., 1990 [1992]a.]
Basionym: *Hypnum brevifolium* Lindberg, 1867.
P. lycopodioides (Bridel) Hedenäs, Lindbergia 16: 88. 1990 [1992]. [See Hedenäs, L., 1990 [1992]a.]
Basionym: *Hypnum lycopodioides* Bridel, 1812.
PSEUDOCROSSIDIUM R. S. Williams, 1915.
P. steerei Churchill, Bryologist 93: 353. f. 1–11. 1990. [See Churchill, S. P., 1990.]
Type: Ecuador. Pichincha: S of Tabacundo, road to Guayllabamba, 00°, 78°15′W, *Churchill & Sastré-De Jesús 13494-a*. Holotype: NY; isotypes: AAU, B, BM, BUF, COL, DUKE, H, MEXU, MO, QCA, U.

PSEUDOLESKEA Bruch & W. P. Schimper in B.S.G., 1852.

P. incurvata var. ***tenuiretis*** (Culmann) Podpěra, Consp. Musc. Eur. 531. 1954.
Basionym: *Pseudoleskea filamentosa* var. *tenuiretis* Culmann, 1910.
Note: redundant combination in H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964, and incorrectly cited from there in *Index of Mosses, 1963–1989*.

PSEUDOLESKEELLA Kindberg, 1897.

P. nervosa fo. ***emarginata*** M. F. Boiko, Ukrajins'k. Bot. Žurn. 47(1): 94. 1990. [See Boiko, M. F., 1990.]
Type: Russia. Regio Stavropoliensis, in adjacentibus urbi Stavropol, locus "Silva Suburbana," *Boiko s.n.* 1979. Holotype: KHER.

P. rupestris (Berggren) Hedenäs & L. Söderström, Lindbergia 17: 64. 1991 [1992]. [See Hedenäs, L. & L. Söderström, 1991 [1992].]
Basionym: *Leskea rupestris* Berggren, 1866.

PSEUDOSYMBLEPHARIS Brotherus in Engler & Prantl, 1924.

P. bartramii Thériot ex E. B. Bartram, J. Wash. Acad. Sci. 19: 16. f. 2: J–Q. 1929.
Other use: *Chionoloma bartramii* (Thériot ex E. B. Bartram) Menzel, 1992.

PSEUDOTAXIPHYLLUM Iwatsuki, 1987.

P. homomallifolium (Redfearn) Ireland, Caldasia 16: 267. 1991. [See Ireland, R. R., 1991.]
Basionym: *Isopterygium homomallifolium* Redfearn, 1973.

P. laetevirens (Dixon & Luisier ex F. Koppe & Düll) Hedenäs, Bryoph. Biblioth. 44: 149. 1992. [See Hedenäs, L., 1992b.]
Basionym: *Isopterygium elegans* var. *laetevirens* Dixon & Luisier ex F. Koppe & Düll, 1986.

P. machrisianum (H. Crum) Ireland, Caldasia 16: 267. 1991. [See Ireland, R. R., 1991.]
Basionym: *Taxiphyllum machrisianum* H. Crum, 1957.

P. richardsii (E. B. Bartram) Ireland, Caldasia 16: 267. 1991. [See Ireland, R. R., 1991.]
Basionym: *Isopterygium richardsii* E. B. Bartram, 1941.

PTERIGYNANDRUM Hedwig, 1801.

P. sharpii H. Crum & L. E. Anderson, Bryologist 70: 99. 1967.
Replaced name: *Hylocomium splendens* var. *tenue* A. J. Sharp, 1933.
Blocking name: *Pterigynandrum tenue* (W. J. Hooker) Bridel, 1827.
Other use: *Leptohymenium sharpii* (H. Crum & L. E. Anderson) W. R. Buck & H. Crum, 1990.

PTEROBRYOPSIS Fleischer, 1905.

****P. kiriromensis*** Tixier, Ann. Fac. Sci. Univ. Phnom Penh 68: 50. f. 3. 1968.
*invalid, single element not cited as holotype (Article 37.3).
Type: Cambodia. Phnom Prom, 700 m, *[Tixier] 2482, 2698*. Herbarium not indicated.
Note: not in *Index of Mosses, 1963–1989*.

PTERYGONEURUM Juratzka, 1882, conserved name.

P. crossidioides W. Frey, Herrnstadt & Kürschner, Nova Hedwigia 50: 239. f. 1–14. 1990. [See Frey, W., I. Herrnstadt & H. Kürschner, 1990.]
Type: Israël. Dead Sea area, 1.2 km S of Abdullah Bridge junction, direction to Qumran (km 286), alt. -350 m, *Frey, Herrnstadt & Kürschner 89-11*. Holotype: HUJ; isotypes: B, herb. Frey, herb. Kürschner. Paratype cited.

*PTERYGOPHYLLUM Brotherus, 1925.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pterygophyllum* Bridel, 1819 [1818].
Correct name: *Achrophyllum* Vitt & Crosby, 1972.
P. distichophylloides Brotherus & Dixon in Dixon, Bull. Torrey Bot. Club 42: 106. pl. 9: f. 11. 1915.
Other use: *Beeveria distichophylloides* (Brotherus & Dixon in Dixon) Fife, 1992.
PTYCHOSTOMUM Hornschuch, 1824.
P. compactum Hornschuch, Flora 5(Syll.): 62. 1822.
Other use: *Bryum algovicum* var. *compactum* (Hornschuch) Düll, 1992.
*PUIGGARIELLA Brotherus in Engler & Prantl, Nat. Pflanzenfam. 1(3): 1046. 1908.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Puiggariella* Spegazzini, 1881.
Correct name: *Puiggariopsis* Menzel, 1992.
PUIGGARIOPSIS Menzel, J. Hattori Bot. Lab. 71: 239. 1992. [See Menzel, M., 1992a.]
Replaced name: *Puiggariella* Brotherus in Engler & Prantl, 1908.
Blocking name: *Puiggariella* Spegazzini, 1881.
P. aurifolia (Mitten) Menzel, J. Hattori Bot. Lab. 71: 239. 1992. [See Menzel, M., 1992a.]
Basionym: *Ctenidium aurifolium* Mitten, 1869.
PYLAISIOBRYUM Brotherus, 1910.
P. abyssinicum (C. Müller) Cufodontis, Oesterr. Bot. Z. 98: 239. 1951.
Basionym: *Neckera abyssinica* C. Müller, 1850.
Note: not in *Index Muscorum*, redundant combination in Wijk & Margadant, Taxon 8: 106. 1959.
PYRRHOBRYUM Mitten, 1868.
P. spiniforme var. ***boninense*** (Iwatsuki) Iwatsuki, Cat. Moss. Japan 100. 1991. [See Iwatsuki, Z., 1991.]
Basionym: *Rhizogonium boninense* Iwatsuki, 1969.
RACOMITRIUM Bridel, 1818 [1819].
R. lusitanicum Ochyra & Sérgio, Fragm. Florist. Geobot. 37: 262. f. 1–4. 1992. [See Ochyra, R. & C. Sérgio, 1992.]
Type: Portugal. Minho: Serra do Gerês, Ribeira da Laga, estrada para Leonte, UTM grid square 29TNG72, 750 m, *Sérgio & Schumacker 5341*. 22 Jun 1984. Holotype: LISU; isotype: KRAM. Paratypes cited.
RADULINA W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 9. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Replaced name: *Hypnum* subsect. *Thelidium* C. Müller, 1875.
Original placement: Sematophyllaceae.
R. aequorea (Fleischer ex Dixon) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 10. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Trichosteleum aequoreum* Fleischer ex Dixon, 1916.
R. elegantissima (Fleischer) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 10. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Trichosteleum elegantissimum* Fleischer, 1923.
R. hamata (Dozy & Molkenboer) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 10. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Hypnum hamatum* Dozy & Molkenboer, 1844.

RADULINA, continued.
R. scaberula (Montagne) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 10. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Hypnum scaberulum* Montagne, 1844.
RAUIELLA Reimers, 1937.
R. lagoensis (Hampe) W. R. Buck, Bryologist 94: 82. 1991. [See Buck, W. R., 1991a.]
Basionym: *Anomodon lagoensis* Hampe, 1870.
RHABDOWEISIA Bruch & W. P. Schimper in B.S.G., 1846.
R. collenchymatica (J. Fröhlich) A. Eddy, Handb. Malesian Mosses 2: 223. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Rhabdoweisia fugax* var. *collenchymatica* J. Fröhlich, 1955.
R. fugax var. *collenchymatica* J. Fröhlich, Arch. Hydrobiol. Suppl. 21: 308. 1955.
Other use: *Rhabdoweisia collenchymatica* (J. Fröhlich) A. Eddy, n.d. [1990].
*RHAPHIDOSTEGIUM (W. P. Schimper in B.S.G.) De Notaris, 1867.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Sematophyllum* Mitten, 1864.
R. cylindrothecium Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 341. 1926.
Other use: *Sematophyllum cylindrothecium* (Brotherus) W. R. Buck & Schäfer-Verwimp in Schäfer-Verwimp, 1991.
Original placement: sect. *Aptychus*.
R. parvulum Brotherus, Bot. Tidsskr. 24: 124. 1901.
Other use: *Sematophyllum parvulum* (Brotherus) Dixon, 1932.
R. subconnivens Brotherus, Bot. Tidsskr. 24: 124. 1901.
Other use: *Sematophyllum subconnivens* (Brotherus) Dixon, 1932.
RHIZOFABRONIA (Brotherus) Fleischer, 1923.
R. persoonii var. *sphaerocarpa* (Dusén) Bizot ex Ochyra, Fragm. Florist. Geobot. 35: 280. 1991. [See Ochyra, R., 1991d.]
Basionym: *Fabronia sphaerocarpa* Dusén, 1895.
Note: previously invalid, basionym not cited (Article 33.2), in Bizot, Acta Bot. Acad. Sci. Hung. 18: 14. 1973.
RHIZOGONIUM Bridel, 1827.
R. boninense Iwatsuki, Bull. Natl. Sci. Mus. 12: 298. 1969.
Replaced name: *Rhizogonium venustum* Bescherelle, 1898.
Blocking name: *Rhizogonium venustum* (Mitten) Jaeger, 1875.
Other use: *Pyrrhobryum spiniforme* var. *boninense* (Iwatsuki) Iwatsuki, 1991.
RHODOBRYUM (W. P. Schimper) Hampe, 1874.
R. sect. *Gigantea* Ochi, Bryobrothera 1: 237. 1992. [See Ochi, H., 1992.]
Type: *Mnium giganteum* Schwägrichen, *R. giganteum* (Schwägrichen) Paris
RHYNCHOSTEGIELLA (B.S.G.) Limpricht, 1896.
R. bandaiensis Brotherus & Paris ex Takaki, J. Jap. Bot. 19: 410. f. 12. 1943.
Other use: *Amblystegium bandaiense* (Brotherus & Paris ex Takaki) Noguchi, 1991.
R. capillacea (Hornschuch in C. Martius) Visnadi & B. H. Allen, Bryologist 94: 14. 1991. [See Visnadi, S. R. & B. Allen, 1991.]
Basionym: *Pilotrichum capillaceum* Hornschuch in C. Martius, 1840.

RHYNCHOSTEGIELLA, continued.
R. tenuicaulis (Spruce) Karttunen, Taxon 39: 315. 1990. [See Karttunen, K., 1990.]
Basionym: *Hypnum tenuicaule* Spruce, 1849.
RHYNCHOSTEGIUM Bruch & W. P. Schimper in B.S.G., 1852.
R. pulchellum var. *praecox* (Hedwig) McFarland, Phytologia 72: 257. 1992. [See McFarland, K. D., 1992b.]
Basionym: *Hypnum praecox* Hedwig, 1801.
Note: previously invalid, basionym not cited (Article 33.2), in McCleary & Redfearn, Trans. Illinois State Acad. Sci. 72: 33. 1979.
RIGODIUM Kunze ex Schwägrichen, 1844 [1845].
R. adpressum Zomlefer, Syst. Bot. 17: 67. f. 1–3. 1992. [See Zomlefer, W. B., 1992.]
Type: Argentina. Chubut: Lago Menéndez, *Kühnemann 5260*. Holotype: H; isotypes, ALTA, U. Other indicated distribution: Chile.
*SAITOA Zander, Phytologia 65: 430. 1989.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Saitoa* Rajendran & Muthappa, 1980.
Correct name: *Saitoella* Menzel, 1992.
SAITOELLA Menzel, J. Hattori Bot. Lab. 71: 239. 1992. [See Menzel, M., 1992a.]
Replaced name: *Saitoa* Zander, 1989.
Blocking name: *Saitoa* Rajendran & Muthappa, 1980.
S. peruviana (R. S. Williams) Menzel, J. Hattori Bot. Lab. 71: 239. 1992. [See Menzel, M., 1992a.]
Basionym: *Globulina peruviana* R. S. Williams, 1916.
SCHISTIDIUM Bridel, 1819 [1818].
S. amblyophyllum (C. Müller) Ochyra & Hertel, Polish Bot. Stud. 1: 26. 1990. [See Ochyra, R. & H. Hertel, 1990.]
Basionym: *Grimmia amblyophylla* C. Müller, 1849.
S. chenii (Lin Shan-hsiung) Cao Tong, Gao Chien & Zhao Jian-cheng, J. Hattori Bot. Lab. 71: 69. 1992. [See Cao Tong, Gao Chien & Zhao Jian-cheng, 1992.]
Basionym: *Grimmia chenii* Lin Shan-hsiung, 1984.
S. cryptocarpum Mogensen & H. Blom, Lindbergia 15: 75. f. 1–2. 1989 [1990]. [See Mogensen, G. S. & H. Blom, 1989 [1990].]
Type: Greenland. Disko, Godhavn, Arctic Station, 69°15′N, 53°33′W, *Mogensen 81-639*. Holotype: C; isotype: TRH. Other indicated distribution: Canada (Québec, Northwest Territories), U.S.A. (Alaska).
S. flaccidum (De Notaris) Ochyra, Nova Hedwigia 48: 94. 1989.
Basionym: *Anictangium flaccidum* De Notaris, 1836.
Note: not in *Index of Mosses, 1963–1989*.
S. gracile fo. *muticum* Melnichuk, Dopov. Akad. Nauk Ukrajins'k. RSR 1958: 79. 1958.
Other use: *Schistidium strictum* fo. *muticum* (Melnichuk) Savicz-Ljubitskaya & Smirnova, 1968.
S. heterophyllum (Kindberg in Macoun) McIntosh in L. E. Anderson, H. Crum & W. R. Buck, Bryologist 93: 468. 1990. [See Anderson, L. E., H. A. Crum & W. R. Buck, 1990.]
Basionym: *Grimmia heterophylla* Kindberg in Macoun, 1892.

SCHISTIDIUM, continued.
S. strictum fo. ***hyperboreum*** (H. Arnell) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
Basionym: *Grimmia gracilis* var. *hyperborea* H. Arnell, 1918.
Note: treated as invalid in *Index of Mosses, 1963–1989*.
S. strictum fo. ***muticum*** (Melnichuk) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
Basionym: *Schistidium gracile* fo. *muticum* Melnichuk, 1958.
Note: treated as invalid in *Index of Mosses, 1963–1989*.

SCHIZOMITRIUM Bruch & W. P. Schimper in B.S.G., 1851.
S. pallidum (Hornschuch in C. Martius) H. Crum & L. E. Anderson, 1981.
Note: redundant combination in Deguchi, Bull. Natl. Sci. Mus., Ser. B, Bot. 17: 33. 1991.

SCHIZYMENIUM Harvey in W. J. Hooker, 1840.
S. pontevedrense (Luisier) C. Casas et al., Anales Jard. Bot. Madrid 46: 608. 1989 [1990], "*pontevedrensis*." [See Sérgio, C., C. Casas, R. M. Cros & M. Brugués, 1989 [1990].]
Basionym: *Mielichhoferia pontevedrensis* Luisier, 1927.
S. ruwenzorense (Thériot & Naveau) Ochyra & A. J. Sharp, J. Hattori Bot. Lab. 65: 345. 1988.
Basionym: *Mielichhoferia ruwenzoriensis* Thériot & Naveau, 1927.
Note: incorrectly placed under "*Syrrhopodon*" in *Index of Mosses, 1963–1989*.

SCHLOTHEIMIA Bridel, 1812.
S. crumii B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992.
[See Thiers, B. M., 1992.]
Replaced name: *Schlotheimia immersa* Mitten, 1869.
Blocking name: *Schlotheimia immersa* C. Müller, 1844.
**S. immersa* Mitten, J. Linn. Soc., Bot. 12: 221. 1869.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Schlotheimia immersa* C. Müller, 1844.
Correct name: *Schlotheimia crumii* B. C. Tan in B. Thiers, 1992.
**S. rubiginosa* (C. Müller) Vitt, Canad. J. Bot. 50: 1193. 1972.
*illegitimate, later homonym (Article 64.1).
Basionym: *Drummondia rubiginosa* C. Müller, 1896.
Earlier name: *Schlotheimia rubiginosa* Wright in Stapf, 1894.
Note: not in *Index of Mosses, 1963–1989*.

SCLEROHYPNUM Dixon, 1931.
S. littorale (Hampe) B. C. Tan, J. Hattori Bot. Lab. 70: 100. 1991. [See Tan, B. C., 1991.]
Basionym: *Hypnum littorale* Hampe, 1872.

SELIGERIA Bruch & W. P. Schimper in B.S.G., 1846.
S. sect. ***Trifariae*** T. Schauer, 1967 [1968].
Note: this name is typified under Article 22.4, and the "typification" and "validation" proposed by Ochyra and Gos, Fragm. Fl. Geobot. 37: 375. 1992, is unnecessary.
S. irrigata (Paul) Ochyra & Gos, Fragm. Florist. Geobot. 37: 372. 1992. [See Ochyra, R. & L. Gos, 1992.]
Basionym: *Seligeria trifaria* var. *irrigata* Paul, 1929.

SELIGERIA, continued.

S. trifaria subsp. ***longifolia*** Lindberg ex Brotherus, Acta Soc. Sci. Fenn. 19(12): 65. 1892.
Other use: *Seligeria trifaria* var. *longifolia* (Lindberg ex Brotherus) Ochyra & Gos, 1992.

S. trifaria var. ***longifolia*** (Lindberg ex Brotherus) Ochyra & Gos, Fragm. Florist. Geobot. 37: 375. 1992. [See Ochyra, R. & L. Gos, 1992.]
Basionym: *Seligeria trifaria* subsp. *longifolia* Lindberg ex Brotherus, 1892.

SEMATOPHYLLUM Mitten, 1864.

S. cylindrothecium (Brotherus) W. R. Buck & Schäfer-Verwimp in Schäfer-Verwimp, J. Hattori Bot. Lab. 69: 162. 1991. [See Schäfer-Verwimp, A., 1991.]
Basionym: *Rhaphidostegium cylindrothecium* Brotherus, 1926.

S. laticuspis (Dixon) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 15. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Warburgiella laticuspis* Dixon, 1935.

S. latifolium Brotherus in Hosseus, Beih. Bot. Centralbl. 28: 362. 1911.
Type: Thailand. Doi Sutäp, 1,660–1,675 m, *C. C. Hosseus s.n.* Herbarium not specified by author.
Note: not in *Index Muscorum*.

S. lonchophyllum (Montagne) Florschütz-de Waard, Trop. Bryol. 3: 96. 1990. [See Florschütz-de Waard, J., 1990.]
Basionym: *Hypnum lonchophyllum* Montagne, 1856.

S. maguireorum W. R. Buck, Mem. New York Bot. Gard. 64: 194. f. 15–17. 1990. [See Buck, W. R., 1990b.]
Type: Brazil. Amazonas: Rio Cauaburi, base camp in Cano Tucano (3rd Serra da Neblina Expedition), 125 m, *Maguire, Steyermark & Maguire 60142*. Holotype: NY. Other indicated distribution: Guyana.

S. pacimoniense (Spruce ex Mitten) Florschütz-de Waard, Trop. Bryol. 3: 96. 1990 [1 Dec]. [See Florschütz-de Waard, J., 1990.]
Basionym: *Potamium pacimoniense* Spruce ex Mitten, 1869.
Note: redundant combination in Buck, Mem. New York Bot. Gard. 64: 193. 1990 [28 Dec].

S. parvulum (Brotherus) Dixon, J. Siam Soc., Nat. Hist. Suppl. 9: 42. 1932.
Basionym: *Rhaphidostegium parvulum* Brotherus, 1901.
Note: not in *Index Muscorum*.

S. ramulinum Thwaites & Mitten, J. Linn. Soc., Bot. 13: 319. 1873.
Other use: *Papillidiopsis ramulina* (Thwaites & Mitten) W. R. Buck & B. C. Tan, 1989 [1990].

S. recurvans (Michaux) Britton, Bryologist 7: 60. 1904.
Basionym: *Leskea recurvans* Michaux, 1803.
Note: cited in *Index Muscorum* as "Bryol. 21: 66. 1918."

S. recurvans var. ***compactum*** Britton, Bryologist 7: 61. 1904, "*compacta*."
Type: U.S.A. New Jersey: Otter Pond, *Austin s.n.* Herbarium not indicated. Syntype. U.S.A. New Jersey: cedar swamps, *Austin [?]*. Herbarium not indicated. Syntype. U.S.A. New York: Catskill Mts., *Austin [?]*. Herbarium not indicated. Syntype. U.S.A. West Virginia: Tibbs Run, *Millspaugh s.n.* Herbarium not indicated. Syntype.
Note: not in *Index Muscorum*.

S. recurvans var. ***squarrosum*** (Michaux) Britton, Bryologist 7: 60. 1904, "*squarrosa*."
Basionym: *Leskea squarrosa* Michaux, 1803.
Note: not in *Index Muscorum*.

SEMATOPHYLLUM, continued.
S. ruficaule Thwaites & Mitten, J. Linn. Soc., Bot. 13: 319. 1873.
Other use: *Trichosteleum ruficaule* (Thwaites & Mitten) B. C. Tan, 1991.
S. subconnivens (Brotherus) Dixon, J. Siam Soc., Nat. Hist. Suppl. 9: 42. 1932.
Basionym: *Rhaphidostegium subconnivens* Brotherus, 1901.
Note: not in *Index Muscorum*.
SERPOLESKEA (Limpricht) Loeske, 1904.
S. confervoides (Bridel) Loeske, 1904.
Note: redundant combination in Karttunen, Ann. Bot. Fenn. 29: 121. 1992.
†SERVICKTIA Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 181. 1990. [See Ignatov, M. S., 1990.]
Type: *S. acuta* Ignatov, holotype.
†*S. acuta* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 181. f. 27: e, h; pl. 8: 94–95, 98–101. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Upper Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen, 4552/3Б-57-3*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.
†*S. longifolia* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 184. f. 27: d, f, g, i; pl. 8: f. 102–106. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permain, *Gomankov, Agnatiev & Meyen 4552/366-2-5*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.
†*S. undulata* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 183. f. 27: a–b; pl. 8: f. 96–97. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Archangelsk: Vilegodsk District, well 06. drilled by 14th expedition of the Aerogeologiya Trust, Tatarian stage of the Upper Permian, *Stepanenko s.n.* 3774/3B-4-4. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.
†*S. vorcutannularioides* Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 183. pl. 9: 107–109. 1990, "*vorcutannularoides*." [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/322-10-1*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.
SPHAGNUM Linnaeus, 1753.
S. sect. *Buchanania* Yamaguchi, Seppelt & Iwatsuki in Yamaguchi et al., Hikobia 11: 140. 1992. [See Yamaguchi, T., R. D. Seppelt & Z. Iwatsuki, 1992.]
Type: *S. leucobryoides* Yamaguchi, Seppelt & Iwatsuki
Note: previously invalid, subordinate taxon merely mentioned (Article 34.1d) in Yamaguchi et al., J. Bryol. 16: 45. 1990.
S. sect. *Inretorta* H. Crum, Bryologist 93: 283. 1990. [See Crum, H., 1990b.]
Type: *S. inretortum* H. A. Crum

SPHAGNUM, continued.

S. acutifolium var. ***subtile*** Russow, Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. 10: 509. 1894.
Other use: *Sphagnum capillifolium* var. *subtile* (Russow) Karttunen in L. Söderström, Karttunen & Hedenäs, 1992.

S. acutirameum H. Crum, Bryologist 95: 423. f. 24–31. 1992. [See Crum, H., 1992b.]
Type: Brazil. Minas Gerais: Parque Nacional do Itatiaia, vicinity of Brejo da Lapa, at km 8 along entry road near border of Rio de Janeiro, 22°22′S, 44°45′W, 2,120 m, *Daniel M. Vital & William R. Buck 19692*. 5 Jul 1991. Holotype: MICH; isotypes: NY, SP.
Original placement: sect. *Subsecunda*.

S. affine var. ***flagellare*** (Schliephacke ex Röll) L. Söderström & Hedenäs in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 121. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]
Basionym: *Sphagnum austinii* var. *flagellare* Schliephacke ex Röll, 1884.

S. amazonicum H. Crum & W. R. Buck, Brittonia 44: 449. f. 1, 3. 1992. [See Crum, H., W. R. Buck, 1992.]
Type: Brazil. Amazonas: at summit of Serra Curicuriari, ca. 450 m, from Igarapé Arabú of the rio Curicuriari to the summit, 0°20′S, 66° 50′W, *Buck 2501*. Jul 1979. Holotype: MICH; isotypes: INPA, NY.
Original placement: sect. *Sphagnum*.

S. austinii var. ***flagellare*** Schliephacke ex Röll, Abh. Thüring. Bot. Vereins Irmischia 3: 30. 1884.
Other use: *Sphagnum affine* var. *flagellare* (Schliephacke ex Röll) L. Söderström & Hedenäs in L. Söderström, Karttunen & Hedenäs, 1992.

*†*S. australe* (Cookson) Frederiksen, Geol. Surv. Prof. Pap. 1084: 34. 1980, "*australum*."
*illegitimate, later homonym (Article 64.1).
Basionym: *Triletes australis* Cookson, 1947.
Earlier name: *Sphagnum australe* Mitten in J. D. Hooker, 1859.
Note: not in *Index of Mosses, 1963–1989*.

S. boomii H. Crum in W. R. Buck, Mem. New York Bot. Gard. 64: 185. f. 1–5. 1990. [See Buck, W. R., 1990b.]
Type: Guyana. Upper Potaro River region, upper slopes of Mt. Wokomung, 5°05′N, 59°50′W, 1,530 m, *Boom & Samuels 9216*. Holotype: MICH; isotypes: BRG, NY.
Original placement: sect. *Subsecunda*.

S. bourbonense H. Crum, Bryologist 95: 276. f. 10–18. 1992. [See Crum, H., 1992a.]
Type: Réunion. Arrt. du Vent: SE-facing slope just SE of summit of La Roche Ecrite, 15 km S of St. Denis, 21°00′S, 55°28′E, 2,270 m, *Marshall R. Crosby & Carol A. Crosby 8844*. 25 Nov 1972. Holotype: MICH; isotype: MO. Paratype cited.
Original placement: sect. *Subsecunda*.

S. bucklanum H. Crum, Bryologist 95: 419. f. 7–15. 1992. [See Crum, H., 1992b.]
Type: Brazil. São Paulo: Mun. Guapiara, Serra Paranapiacaba, Fazenda Intervales, summit of Morro de Mirant, 24°16′S, 48°25′W, 1,000–1,100 m, *William R. Buck 20513*. 24 Jul 1991. Holotype: MICH; isotypes: NY, SP.
Original placement: sect. *Sphagnum*.

SPHAGNUM, continued.

*S. **capillifolium*** var. ***subtile*** (Russow) Karttunen in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 121. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]
Basionym: *Sphagnum acutifolium* var. *subtile* Russow, 1894.

*S. **contortulum*** H. Crum, Bryologist 94: 301. f. 8–14. 1991. [See Crum, H., 1991b.]
Type: Brazil. Bahia: Municipio de Jacobina, 11°06′S, 40°49′W, *Vital 8080*. Holotype: MICH; isotype: SP.
Original placement: sect. *Cuspidata*.

*S. **curicuriariense*** H. Crum & W. R. Buck, Brittonia 44: 458. f. 10–11. 1992. [See Crum, H. & W. R. Buck, 1992.]
Type: Brazil. Amazonas: from Igarapé Arabú of Rio Curicuriari to the summit of Serra Curicuriari, 0°20′S, 66°50′W, 450 m, *Buck 2500*. Jul 1979. Holotype: MICH; isotypes: INPA, NY. Paratype cited.
Original placement: sect. *Subsecunda*.

*S. **denticulatum*** var. ***inundatum*** (Russow) Karttunen in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 121. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]
Basionym: *Sphagnum inundatum* Russow, 1894.

*S. **dimorphophyllum*** H. Crum & W. R. Buck, Brittonia 44: 451. f. 4, 5. 1992. [See Crum, H. & W. R. Buck, 1992.]
Type: Brazil. Amazonas: along shores of Rio Curicuriari near confluence with the Rio Negro, 0°20′S, 66°55′W, *Buck 2561*. Jul 1979. Holotype: MICH; isotypes: INPA, NY.
Original placement: sect. *Sphagnum*.

*S. **divisum*** H. Crum, Bryologist 95: 424. f. 39–45. 1992. [See Crum, H., 1992b.]
Type: Brazil. Goiás: Côrrego Itaquera, ca. 30 km N of Formosa, 850 m, *H. S. Irwin, R. Souza, J. W. Grear & R. Reis dos Santos 154562*. 2 May 1966. Holotype: MICH; isotypes: NY, SP.
Original placement: sect. *Subsecunda*.

*S. **exquisitum*** H. Crum, Bryologist 95: 420. f. 16–23. 1992. [See Crum, H., 1992b.]
Type: Brazil. Minas Gerais/Rio de Janeiro/São Paulo border: Serra da Mantiqueira, nahe Serra das Agulhas Negras, 2,300 m, *K. Kubitzki 84-8*. 28 Feb–1 Mar 1984. Holotype: NY; isotype: MICH.
Original placement: sect. *Subsecunda*.

*S. **geraisense*** H. Crum, Bryologist 95: 424. f. 32–38, 61. 1992. [See Crum, H., 1992b.]
Type: Brazil. Minas Gerais: Mun. São Roque de Minas, Parque Nacional da Serra da Canastra, Cachoeira Casca D'Anta, 20°18′S, 46°41′W, 1,200 m, *Daniel M. Vital & William R. Buck 11917*. 19 Sep 1984. Holotype: MICH; isotypes: NY, SP.
Original placement: sect. *Subsecunda*.

*S. **homophyllum*** H. Crum, Bryologist 95: 425. f. 46–52. 1992. [See Crum, H., 1992b.]
Type: Brazil. Santa Catarina: N of Curitibano, km 215.2 on BR-116, 24 km N of junction to Lebon Regis, 26°52′S, 50°17′W, 1,010 m, *Dale H. Vitt 21020*. 4 Sep 1977. Holotype: MICH.
Original placement: sect. *Subsecunda*.

*S. **inretortum*** H. Crum, Bryologist 93: 283. f. 1–8. 1990. [See Crum, H., 1990b.]
Type: Bolivia. La Paz: Murillo, zwischen Unduavi und Coroico, 3,100 m, *Feuerer s.n.* 1981. Holotype: MICH; isotype: herb. Feuerer.
Original placement: sect. *Inretorta*.

SPHAGNUM, continued.

S. inundatum Russow, Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. 10: 390, 405. 1894.
Other use: *Sphagnum denticulatum* var. *inundatum* (Russow) Karttunen in L. Söderström, Karttunen & Hedenäs, 1992.

S. isoviitae Flatberg, J. Bryol. 17: 2. f. 1–2. 1992. [See Flatberg, K. I., 1992.]
Type: Norway. Sør-Trøndelag: Klaebu, S of Bostad, NR 758,227 (UTM-reference), 210 m, *K. I. Flatberg s.n.* 22 Sep 1981. Holotype: TRH; isotypes: ALTA, H, NICH, NY, TRH. Other indicated distribution: Canada (Newfoundland, Nova Scotia), Finland, United Kingdom (Scotland, Wales), U.S.A. (Massachusetts, New Jersey, New York).

S. leucobryoides Yamaguchi, Seppelt & Iwatsuki in Yamaguchi et al., J. Bryol. 16: 45. f. 1–6. 1990. [See Yamaguchi, T., R. D. Seppelt, Z. Iwatsuki & A. M. Buchanan, 1990.]
Type: Australia. Tasmania, *Buchanan 9371*. Holotype: HO; isotype: HIRO.
Original placement: sect. *Buchanania*.

S. obliquefibrosum H. Crum, Bryologist 95: 426. f. 53–60. 1992. [See Crum, H., 1992b.]
Type: Brazil. Santa Catarina: 14 km E of Ponta Serrada, km 107 on BR-282, 26°55′S, 51°56′W, *Dale H. Vitt 21148*. 6 Sep 1977. Holotype: MICH.
Original placement: sect. *Subsecunda*.

S. ripense H. Crum & W. R. Buck, Brittonia 44: 457. f. 8–9. 1992. [See Crum, H. & W. R. Buck, 1992.]
Type: Brazil. Amazonas: bank of Rio Igarapé Banco (Rio Carina), from Rio Curcuriari to Cachoeira de Boto (Cachoeira Piraiauara), 0°20′S, 66°55′W, *Buck 2544*. Jul 1979. Holotype: MICH; isotypes: INPA, MICH.
Original placement: sect. *Subsecunda*.

S. sancto-josephense H. Crum & Crosby, Ann. Missouri Bot. Gard. 61: 904. f. 1–14. 1974.
Type: Costa Rica. Cerro de la Muerte, *Crosby 2578A*. Holotype: MICH; isotypes: CR, MO.
Note: not in *Index of Mosses, 1963–1989*.

S. simplicicaulis H. Crum, Contr. Univ. Michigan Herb. 17: 76. f. 26–32. 1990. [See Crum, H., 1990a.]
Type: Venezuela. Bolívar: Chimanta Massif, along rapids of Río Apacara in sandy soil, 1/4 mile downstream from mouth of Río Abacapa to mouth of Río Abacapa [sic], 415 m, *Steyermark 74697*. Holotype: NY; isotype: NY.

S. sipmanii H. Crum in Sipman, Trop. Bryol. 6: 23. f. 11. 1992. [See Sipman, H. J. M., 1992.]
Type: Venezuela. Bolívar: Cerro Guaiquinima, 950 m, *H. Sipman 26618*. Holotype: NY; isotypes: B, VEN.

S. subsecundoides H. Crum & W. R. Buck, Brittonia 44: 453. f. 6. 1992. [See Crum, H. & W. R. Buck, 1992.]
Type: Brazil. Amazonas: along the Rio Marié, at Manauna, 0°40′S, 66°45′W, *Buck 2413*. Jul 1979. Holotype: MICH; isotypes: INPA, NY.
Original placement: sect. *Sphagnum*.

S. tabuleirense Yano & H. Crum, Bryologist 95: 343.f. 1–j. 1992. [See Yano, O. & H. Crum, 1992.]
Type: Brazil. Baraíba: Município de Santa Rita, Tabuleiro de Santa Rita, *L. Xavier Filho s.n.* 22 May 1985. Holotype: SP; isotype: MICH.
Original placement: sect. *Sphagnum*.

SPHAGNUM, continued.
†*S. triangulare* (Mamczar) Frederiksen, Geol. Surv. Prof. Pap. 1084: 34. 1980, "*triangularum*."
Basionym: *Sphagnumsporites stereoides* fo. *triangularis* Mamczar, 1960.
Note: not in *Index of Mosses, 1963–1989*.
S. vitalii H. Crum, Bryologist 94: 301. f. 1–7. 1991. [See Crum, H., 1991b.]
Type: Brazil. Bahia: Municipio de Jacobina, 11°06′S, 40°39′W, *Vital 8081*. Holotype: MICH; isotype: SP.
Original placement: sect. *Sphagnum*.
†SPHAGNUMSPORITES Raatz ex Potonié, 1956.
†*S. stereoides* fo. *triangularis* Mamczar, Inst. Geol Bull. (Poland) 157: 196. pl. 1: f. 3. 1960.
Other use: *Sphagnum triangulare* (Mamczar) Frederiksen, 1980.
*STEREODON Mitten, 1859.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Hypnum* Hedwig, 1801.
S. hamatus Mitten, J. Linn. Soc., Bot. 12: 533. 1869.
Other use: *Hypnum mittenohamatum* B. C. Tan in B. Thiers, 1992.
STEREOPHYLLUM Mitten, 1859.
S. dicksonii Norris, Bryologist 72: 524. f. 1–10. 1969 [1970].
Type: "Mexico. Nayarit: Arroyo Ixcatán near San Pedro Ixcatán, on partially shaded rocks," *Dickson 6401*. Holotype: herb. Norris. Paratypes cited.
Note: not in *Index of Mosses, 1963–1989*.
*STREIMANNIA Ochyra, J. Bryol. 16: 223. 1990 [19 Dec]. [See Ochyra, R., 1990f.]
*illegitimate, later homonym (Article 64.1).
Earlier name: *Streimannia* Thor, 1990 [1 Dec].
Correct name: *Bryostreimannia* Ochyra, 1991.
Type: *S. turgida* Ochyra, holotype.
Original placement: Brachytheciaceae.
S. turgida Ochyra, J. Bryol. 16: 223. 1990. [See Ochyra, R., 1990f.]
Type: Australia. Australian Capital Territory: Smokers Gap, head of Gibraltar Creek, 32 km SW of Canberra, 1,220 m, *Streimann 4282*. Holotype: CBG; isotypes: H, KRAM, L, MO, NICH. Paratypes cited.
Other use: *Bryostreimannia turgida* (Ochyra) Ochyra, 1991.
STRUCKIA C. Müller, 1893.
S. argentata subsp. *enervis* (Brotherus) B. C. Tan, W. R. Buck & Ignatov, Lindbergia 16: 102. 1990 [1992]. [See Tan, B. C., W. R. Buck & M. S. Ignatov, 1990 [1992].]
Basionym: *Fabronia enervis* Brotherus, 1924.
S. argentata var. *zerovii* (Lazarenko) B. C. Tan, W. R. Buck & Ignatov, Lindbergia 16: 102. 1990 [1992]. [See Tan, B. C., W. R. Buck & M. S. Ignatov, 1990 [1992].]
Basionym: *Cephalocladium zerovii* Lazarenko, 1946.
SYMBLEPHARIS Montagne, 1837.
S. socotrana Mitten, Trans. Roy. Soc. Edinburgh 31: 331. 1888.
Other use: *Chionoloma socotrana* (Mitten) Menzel, 1992.
SYMPHYODON Montagne, 1841.
S. acuminatus Dixon & Potier de la Varde, Ann. Cryptog. Exot. 3: 180. pl. 4: f. 4. 1930.
Other use: *Myurium acuminatum* (Dixon & Potier de la Varde) He Si & Snider, 1992.
S. machrisianus (H. Crum) W. R. Buck & Ireland, Bryologist 95: 433. 1992. [See Buck, W. R. & R. R. Ireland, 1992.]
Basionym: *Taxiphyllum machrisianum* H. Crum, 1957.

SYMPHYODON, continued.
*S. **pygmaeus*** (Brotherus) He Si & Snider, Bryobrothera 1: 285. 1992. [See He Si & J. Snider, 1992.]
Basionym: *Homalia pygmaea* Brotherus, 1906.
*S. **scaber*** (Tixier) He Si & Snider, Bryobrothera 1: 285. 1992. [See He Si & J. Snider, 1992.]
Basionym: *Symphyodon sutepensis* var. *scaber* Tixier, 1971–72 [1972].
*S. **sutepensis*** var. ***scaber*** Tixier, Rev. Bryol. Lichénol. 38: 156. 1971–72 [1972].
Other use: *Symphyodon scaber* (Tixier) He Si & Snider, 1992.
SYMPHYSODONTELLA Fleischer, 1906.
*S. **splendens*** (Reinwardt & Hornschuch) Touw & Magill in Touw, J. Hattori Bot. Lab. 71: 350. 1992. [See Touw, A., 1992.]
Basionym: *Neckera splendens* Reinwardt & Hornschuch, 1829.
SYNTRICHIA Bridel, 1801.
*S. **abranchesii*** (Luisier) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula abranchesii* Luisier, 1916.
*S. **aciphylla*** var. ***calva*** Amann, Bull. Soc. Vaud. Sci. Nat. 53: 91. 1920.
Other use: *Syntrichia norvegica* var. *calva* (Amann) Ochyra, 1992.
*S. **ammonsiana*** (H. Crum & L. E. Anderson) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula ammonsiana* H. Crum & L. E. Anderson, 1979.
*S. **andicola*** (Montagne) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula andicola* Montagne, 1838.
*S. **caninervis*** var. ***gypsophila*** (Amann ex G. Roth) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula ruralis* var. *gypsophila* Amann ex G. Roth, 1916 [1915].
*S. **cavallii*** (Negri) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula cavallii* Negri, 1908.
*S. **fragilis*** (Taylor) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula fragilis* Taylor, 1847.
*S. **handelii*** var. ***ferganensis*** (Lazarenko) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula ferganensis* Lazarenko, 1928.
*S. **norvegica*** var. ***calva*** (Amann) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Syntrichia aciphylla* var. *calva* Amann, 1920.
*S. **pseudohandelii*** (J. Fröhlich) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula pseudohandelii* J. Fröhlich, 1964.
*S. **rigescens*** (Brotherus & Geheeb) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula rigescens* Brotherus & Geheeb, 1903.
*S. **ruraliformis*** var. ***subpapillosissima*** (Bizot & Pierrot in Bizot) Ochyra, Fragm. Florist. Geobot. 37: 212. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula ruralis* var. *subpapillosissma* Bizot & Pierrot in Bizot, 1973.
*S. **ruralis*** subsp. ***calcicolens*** (W. Kramer) Düll, Bryol. Beitr. 8/9: 56. 1992. [See Düll, R., 1992.]
Basionym: *Tortula calcicolens* W. Kramer, 1980.

SYNTRICHIA, continued.

S. sinensis (C. Müller) Ochyra, Fragm. Florist. Geobot. 37: 213. 1992. [See Ochyra, R., 1992.]
Basionym: *Barbula sinensis* C. Müller, 1896.

S. submontana (Brotherus) Ochyra, Fragm. Florist. Geobot. 37: 213. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula submontana* Brotherus, 1931.

S. virescens (De Notaris) Ochyra, Fragm. Florist. Geobot. 37: 213. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula ruralis* var. *virescens* De Notaris, 1838.

S. virescens var. ***minor*** (Bizot) Ochyra, Fragm. Florist. Geobot. 37: 213. 1992. [See Ochyra, R., 1992.]
Basionym: *Tortula papillosissima* var. *minor* Bizot, 1954.

SYRRHOPODON Schwägrichen, 1824.

S. aberrans var. ***laevis*** Dixon, J. Linn. Soc., Bot. 50: 81. 1935.
Other use: *Syrrhopodon prolifer* var. *laevis* (Dixon) A. Eddy, n.d. [1990].

S. albidus Thwaites & Mitten in Mitten, J. Linn. Soc., Bot. 13: 298. 1873.
Other use: *Syrrhopodon prolifer* var. *albidus* (Thwaites & Mitten in Mitten) Orbán & W. D. Reese, 1990.

S. armatissimus W. D. Reese, Bryologist 94: 217. f. 1–6. 1991. [See Reese, W. D., 1991b.]
Type: Madagascar. Tamatave: forest reserve at Tamapolo, 95 km N of Tamatave, 17°16′S, 49°24′E, sea level, *Crosby & Crosby 5436*. Holotype: MO; isotypes: B, H, LAF, NY, US.

S. cambodianus Tixier, Ann. Fac. Sci. Univ. Phnom Penh 1967–68: 46. f. 2. 1968, "*cambodianum*."
Type: Cambodia. Phnom Prom, 700 m, *[Tixier] 2552*. Herbarium not indicated. Other indicated distribution: Vietnam. Paratype not cited, but other distribution listed.
Note: not in *Index of Mosses, 1963–1989*.

S. crassus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 166. 1898.
Other use: *Mitthyridium wallisii* var. *crassum* (Brotherus) Menzel, 1990.

S. cryptocarpus Dozy & Molkenboer, Prodr. Fl. Bryol. Surinam. [Natuurk. Verh. Holl. Maatsch. Wetensch. Haarlem, ser. 2, 10(3):] 14. f. 7. 1854, "*cryptocarpos*."
Other use: *Chameleion cryptocarpus* (Dozy & Molkenboer) L. Ellis & A. Eddy in A. Eddy, n.d. [1990].

S. cyrtacanthos W. D. Reese, Bryologist 95: 95. f. 1–6. 1992. [See Reese, W. D., 1992.]
Type: Australia. Queensland: Roaring Meg Creek, ca. 1,200 feet, *Godwin s.n.* Holotype: MELU.

S. hainanensis W. D. Reese & Lin Pang-juan, Bryologist 94: 70. f. 3–7. 1991. [See Reese, W. D. & Lin Pang-juan, 1991.]
Type: China. Hainan: Ledong Co., Jiang-fengling Mountain, 1,400 m, *Lin & Zhang 652*. Holotype: IBSC; isotypes: LAF, MO, PE.

S. hispidocostatus Renauld & Cardot in Renauld, Rev. Bot. Bull. Mens. 9: 394. 1891.
Other use: *Syrrhopodon prolifer* var. *hispidocostatus* (Renauld & Cardot in Renauld) Orbán & W. D. Reese, 1990.

SYRRHOPODON, continued.

S. lisowskii Orbán, Egri Ho Si Minh Tanárképzö Föiskola Füzetei 18: 81. f. 1–6. 1987.
Type: "Zaïre, Haut Shaba. Env. de Kasumbalesa. Colline Kibwe I. 1,400 m." *S. Lisowski s.n.* 1971. Holotype: EGR.
Original placement: subgen. *Syrrhopodon*.
Note: not in *Index of Mosses, 1963–1989*.

S. obtusifolius Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 21: 605. 1864 [1865].
Other use: *Mitthyridium fasciculatum* subsp. *obtusifolium* (Lindberg) Menzel, 1990.

S. patens Dixon, J. Linn. Soc., Bot. 50: 82. 1935.
Other use: *Syrrhopodon spiculosus* var. *patens* (Dixon) A. Eddy, n.d. [1990].

S. prolifer var. *albidus* (Thwaites & Mitten in Mitten) Orbán & W. D. Reese, Bryologist 93: 444. 1990. [See Orbán, S. & W. D. Reese, 1990.]
Basionym: *Syrrhopodon albidus* Thwaites & Mitten in Mitten, 1873.

S. prolifer var. *hispidocostatus* (Renauld & Cardot in Renauld) Orbán & W. D. Reese, Bryologist 93: 443. 1990. [See Orbán, S. & W. D. Reese, 1990.]
Basionym: *Syrrhopodon hispidocostatus* Renauld & Cardot in Renauld, 1891.
Note: previously invalid, basionym not cited (Article 33.2), in Orbán, Sixth Meet. C. & E. Eur. Bryol. Work. Group, Abstr. 10. 1988.

S. prolifer var. *laevis* (Dixon) A. Eddy, Handb. Malesian Mosses 2: 65. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Syrrhopodon aberrans* var. *laevis* Dixon, 1935.

S. prolifer var. *tosaensis* (Cardot) Orbán & W. D. Reese, Bryologist 93: 442. 1990. [See Orbán, S. & W. D. Reese, 1990.]
Basionym: *Syrrhopodon tosaensis* Cardot, 1907.

S. pulcher W. D. Reese, H. Akiyama & C. C. Townsend, Bryologist 94: 419. f. 1–6. 1991. [See Reese, W. R., H. Akiyama & C. C. Townsend, 1991.]
Type: Indonesia [Moluccas]. Ceram: W. Seram, Kecamatan Seram Barat, en route from Tanahgoyang to the top of Gunung Tiang Bendera, 3°13′S, 128°31′E, 960 m, *Akiyama C-15577*. Holotype: KYO; isotypes: BO, LAF. Other indicated distribution: Indonesia (Sulawesi).

**S. ruwenzorensis* Fubar.
*incorrectly placed under *Syrrhopodon* in *Index of Mosses, 1963–1989*.
Correct name: *Schizymenium ruwenzorense* (Thériot & Naveau) Ochyra & A. J. Sharp, 1988.

S. schimperianus Paris, Index Bryol. 1254. 1898.
Replaced name: *Syrrhopodon circinatus* W. P. Schimper in Bescherelle, 1872.
Blocking name: *Syrrhopodon circinatus* (Bridel) Mitten, 1869.
Other use: *Chionoloma schimperiana* (Paris) Menzel, 1992.

S. spiculosus var. *patens* (Dixon) A. Eddy, Handb. Malesian Mosses 2: 71. n.d. [1990]. [See Eddy, A., n.d. [1990].]
Basionym: *Syrrhopodon patens* Dixon, 1935.

S. tortuosus Hornschuch, Linnaea 15: 117. 1841.
Other use: *Amphidium tortuosum* (Hornschuch) Cufodontis, 1951.

S. tosaensis Cardot, Bull. Herb. Boissier, sér. 2, 7: 716. 1907.
Other use: *Syrrhopodon prolifer* var. *tosaensis* (Cardot) Orbán & W. D. Reese, 1990.

SYRRHOPODON, continued.
S. xanthophyllus Mitten, J. Linn. Soc., Bot. 12: 115. 1869.
Other use: *Chameleion xanthophyllus* (Mitten) L. Ellis & A. Eddy in A. Eddy, n.d. [1990].
TAIWANOBRYUM Noguchi, 1936.
T. robustum Veloira, Bryologist 62: 105. f. 1–9. 1959.
Other use: *Neolindbergia veloirae* H. Akiyama, 1991.
TAKAKIA Hattori & H. Inoue, 1958.
T. ceratophylla (Mitten) Grolle, Oesterr. Bot. Z. 110: 444. 1963.
Basionym: *Lepidozia ceratophylla* Mitten, 1860 [1861].
Note: *Takakia* has recently been shown to be a moss (see D. K. Smith, Bryol. Times 57/58: 1, 4. 1990), and this citation from 1963 should have been included in *Index of Mosses, 1963–1989*.
TAXIPHYLLUM Fleischer, 1923.
T. ligulaefolium (E. B. Bartram) W. R. Buck, Trop. Bryol. 2: 42. 1990. [See Buck, W. R., 1990a.]
Basionym: *Glossadelphus ligulaefolius* E. B. Bartram, 1946.
T. machrisianum H. Crum, Nat. Hist. Mus. Los Angeles County, Contr. Sci. 18: 5. f. 1–4. 1957.
Other use: *Pseudotaxiphyllum machrisianum* (H. Crum) Ireland, 1991, *Symphyodon machrisianus* (H. Crum) W. R. Buck & Ireland, 1992.
T. schweinfurthii (C. Müller) W. R. Buck, Mem. New York Bot. Gard. 45: 520. 1987.
Basionym: *Hypnum schweinfurthii* C. Müller, 1875.
Note: not in *Index of Mosses, 1963–1989*.
TAYLORIA W. J. Hooker, 1816.
T. erythrodonta var. ***clavipes*** Spruce, J. Proc. Linn. Soc., Bot. 5: 49. 1860.
Note: incorrectly placed under *Tortula erythrodonta* var. *clavipes* in *Index Muscorum*.
T. rubicaulis A. Koponen, Ann. Bot. Fenn. 27: 43. f. 1–20. 1990. [See Koponen, A., 1990.]
Type: Venezuela. Mérida: near Pico El Aguila, paramo de Pinango, *Vareschi 8738a*. Holotype: FLAS. Other indicated distribution: Colombia.
†THAMNITES Jovet-Ast & Huard, 1966 [1967].
†***T. marginatus*** Jovet-Ast & Huard, Rev. Bryol. Lichénol. 34: 811. f. 1, pl. 50–51. 1966 [1967].
Other use: *Thamnobryum marginatum* (Jovet-Ast & Huard) Enroth, 1992.
*THAMNIUM W. P. Schimper in B.S.G., 1852.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Thamnium* Ventenat, 1799.
Correct name: *Thamnobryum* Nieuwland, 1917.
T. sect. ***Parathamnium*** Fleischer, Musci Buitenzorg 3: 930. 1908, "*Para-Thamnium*."
Other use: *Parathamnium* (Fleischer) Ochyra, 1991, *Thamnobryum* subgen. *Parathamnium* (Fleischer) Ochyra, 1990.
T. canariense Renauld & Cardot, Bull. Herb. Boissier, sér. 2, 2: 440. pl. 6: f. 11–19. 1902.
Other use: *Forsstroemia canariensis* (Renauld & Cardot) Enroth, 1992, *Isothecium atlanticum* Hedenäs, 1992 [12 May].
T. capense Brotherus & Dixon in Dixon, Bull. Torrey Bot. Club 43: 71. pl. 1: f. 2. 1916.
Other use: *Thamnobryum capense* (Brotherus & Dixon in Dixon) Enroth, 1991.

*THAMNIUM, continued.
T. maderense Kindberg, Hedwigia 41: 216. 1902.
Other use: *Thamnobryum maderense* (Kindberg) Hedenäs, 1992.
T. negrosense E. B. Bartram, Philipp. J. Sci. 68: 250. f. 314. 1939.
Other use: *Parathamnium negrosense* (E. B. Bartram) Ochyra, 1991.
THAMNOBRYUM Nieuwland, 1917.
T. subgen. ***Parathamnium*** (Fleischer) Ochyra, J. Hattori Bot. Lab. 68: 301. 1990. [See Ochyra, R., 1990e.]
Basionym: *Thamnium* sect. *Parathamnium* Fleischer, 1908.
T. angustifolium (Holt) Nieuwland, Amer. Midl. Naturalist 5: 51. 1917.
Basionym: *Thamnium angustifolium* Holt, 1886.
Note: not in *Index Muscorum*; redundant combination in Crundwell, Trans. Brit. Bryol. Soc. 6: 325. 1971, and cited from there in *Index of Mosses, 1963–1989*.
T. capense (Brotherus & Dixon in Dixon) Enroth, Novon 1: 110. 1991. [See Enroth, J., 1991b.]
Basionym: *Thamnium capense* Brotherus & Dixon in Dixon, 1916.
T. cataractarum Blockeel in Hodgetts & Blockeel, J. Bryol. 17: 252. f. 1. 1992. [See Hodgetts, N. G. & T. L. Blockeel, 1992.]
Type: United Kingdom. England: Yorkshire, Twisleton Glen, Ingleton, *Hodgetts 2374*. Holotype: E; isotype: LISU.
T. ellipticum (Bosch & Sande Lacoste) Nieuwland, Amer. Midl. Naturalist 5: 51. 1917.
Basionym: *Porotrichum ellipticum* Bosch & Sande Lacoste, 1863.
Note: incorrectly attributed to Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 470. 1972 in *Index of Mosses, 1963–1989*; not in *Index Muscorum*.
T. fernandesii Sérgio, Bol. Soc. Brot., ser. 2, 53: 1125. f. 1–8. 1981.
Other use: *Crassiphyllum fernandesii* (Sérgio) Ochyra, 1991.
T. maderense (Kindberg) Hedenäs, J. Bryol. 17: 120. 1992. [See Hedenäs, L., 1992a.]
Basionym: *Thamnium maderense* Kindberg, 1902.
†*T. marginatum* (Jovet-Ast & Huard) Enroth, Ann. Bot. Fenn. 29: 76. 1992. [See Enroth, J., 1992b.]
Basionym: *Thamnites marginatus* Jovet-Ast & Huard, 1966 [1967].
T. pumilum (W. J. Hooker & Wilson) B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Thiers, B. M., 1992.]
Basionym: *Isothecium pumilum* W. J. Hooker & Wilson, 1859.
Note: incorrectly attributed to "Nieuwl., Am. Midland Natural. 5: 50. 1917." in *Index Muscorum*. Nieuwland did not use this combination of words in that place.
THUIDIUM Bruch & W. P. Schimper in B.S.G., 1852.
T. atlanticum Hedenäs, J. Bryol. 16: 387. f. 1–2. 1991. [See Hedenäs, L., 1991.]
Type: Portugal. Madeira: Ribeiro Frio, around the village, ca. 900 m, *Hedenäs MA90-188*. Holotype: S; isotypes: LISU, herb. Hedenäs. Other indicated distribution: Spain (Canary Islands).
Other use: *Cyrto-hypnum atlanticum* (Hedenäs) Hedenäs & Sérgio in Hedenäs, 1992.
Original placement: subgen. *Microthuidium*.
T. bifarium Bosch & Sande Lacoste, Bryol. Jav. 2: 123. pl. 226. 1865.
Other use: *Lorentzia bifaria* (Bosch & Sande Lacoste) W. R. Buck & H. Crum, 1990.

THUIDIUM, continued.

T. ***bonianum*** Bescherelle, Bull. Soc. Bot. France 34: 98. 1887.
Other use: *Cyrto-hypnum bonianum* (Bescherelle) W. R. Buck & H. Crum, 1990.

T. ***brotheri*** E. S. Salmon, J. Bot. 39: 153. pl. 421. 1901.
Other use: *Cyrto-hypnum brotheri* (E. S. Salmon) W. R. Buck & H. Crum, 1990.

T. ***byssoideum*** Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 2: 95. 1885.
Other use: *Cyrto-hypnum byssoideum* (Bescherelle) W. R. Buck & H. Crum, 1990.

T. ***chenagonii*** C. Müller ex Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 33(2): 129. 1895, "*chenagoni*."
Other use: *Cyrto-hypnum chenagonii* (C. Müller ex Renauld & Cardot) W. R. Buck & H. Crum, 1990.

T. ***erosifolium*** Zeng Shu-ying, Guihaia 10: 105. pl. 1. 1990. [See Zeng Shu-ying, 1990.]
Type: China. Xizang: Lyingchi Xian (Linchih County), 2,050 m, *Su Yong-ge 2362*. Holotype: KUN.

T. ***intricatum*** Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1876–77: 251 (Gen. Sp. Musc. 2: 317). 1878.
Replaced name: *Leskea intricata* Mitten, 1863.
Blocking name: *Leskea intricata* C. J. Hartman, 1849.
Other use: *Cyrto-hypnum intricatum* (Jaeger) W. R. Buck & H. Crum, 1990.
Note: new name, based on adoption of earlier epithet (Article 72.Note1).

T. ***involvens*** var. ***thomeanum*** Brotherus, Bol. Soc. Brot. 8: 183. 1890.
Other use: *Cyrto-hypnum involvens* subsp. *thomeanum* (Brotherus) W. R. Buck & H. Crum, 1990.

T. ***kiasense*** R. S. Williams, Bull. New York Bot. Gard. 8: 363. 1914.
Other use: *Cyrto-hypnum kiasense* (R. S. Williams) W. R. Buck & H. Crum, 1990.

T. ***koelzii*** H. Robinson, Bryologist 71: 92. 1968.
Other use: *Cyrto-hypnum koelzii* (H. Robinson) W. R. Buck & H. Crum, 1990.

T. ***lepidoziaceum*** Sakurai, Bot. Mag. (Tokyo) 60: 88. f. 3. 1947.
Other use: *Cyrto-hypnum lepidoziaceum* (Sakurai) W. R. Buck & H. Crum, 1990.

T. ***magnisporum*** R. Watanabe, J. Hattori Bot. Lab. 69: 41. f. 1. 1991. [See Watanabe, R., 1991.]
Type: Thailand. Chengmai area, lower slopes of Mt. Inthanon, 1,554 m, *Robbins 3583*. Holotype: L.

T. ***mexicanum*** Mitten, J. Linn. Soc., Bot. 12: 577. 1869.
Other use: *Cyrto-hypnum mexicanum* (Mitten) W. R. Buck & H. Crum, 1990.

T. ***pelekinoides*** Chen Pan-chieh, Sunyatsenia 6: 190. f. 23. 1941.
Type: China. Hainan: Pepu, *Ho 1131*. Herbarium not indicated.
Other use: *Cyrto-hypnum pelekinoides* (Chen Pan-chieh) W. R. Buck & H. Crum, 1990.
Note: not in *Index Muscorum*.

T. ***pygmaeum*** W. P. Schimper in B.S.G., Bryol. Eur. 5: 162 (fasc. 49–51. Monogr. 6). 1852.
Other use: *Cyrto-hypnum pygmaeum* (W. P. Schimper in B.S.G.) W. R. Buck & H. Crum, 1990.

T. ***robbinsii*** E. B. Bartram, Brittonia 13: 376. 1961.
Other use: *Inouethuidium robbinsii* (E. B. Bartram) R. Watanabe, 1991.

T. ***rubiginosum*** Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 15: 80. 1892.
Other use: *Cyrto-hypnum rubiginosum* (Bescherelle) W. R. Buck & H. Crum, 1990.

THUIDIUM, continued.
T. scabrosulum Mitten, J. Linn. Soc., Bot. 12: 574. 1869.
Other use: *Cyrto-hypnum scabrosulum* (Mitten) W. R. Buck & H. Crum, 1990.
T. sharpii H. Crum, Bryologist 87: 211. f. 26–33. 1984.
Other use: *Cyrto-hypnum sharpii* (H. Crum) W. R. Buck & H. Crum, 1990.
T. squarrosulum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 38(1): 31. 1899.
Other use: *Cyrto-hypnum squarrosulum* (Renauld & Cardot) W. R. Buck & H. Crum, 1990.
T. stevensii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 38(1): 33. 1899.
Other use: *Cyrto-hypnum stevensii* (Renauld & Cardot) W. R. Buck & H. Crum, 1990.
T. subscissum C. Müller ex Bescherelle, Ann. Sci. Nat. Bot., sér. 6, 10: 290. 1880.
Other use: *Cyrto-hypnum gratum* subsp. *subscissum* (C. Müller ex Bescherelle) W. R. Buck & H. Crum, 1990.
T. synoicum Touw in Touw & Falter-van den Haak, J. Hattori Bot. Lab. 67: 47. f. 12: b, 15. 1989.
Other use: *Cyrto-hypnum synoicum* (Touw in Touw & Falter-van den Haak) W. R. Buck & H. Crum, 1990.
T. talongense Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 15: 81. 1892.
Other use: *Cyrto-hypnum talongense* (Bescherelle) W. R. Buck & H. Crum, 1990.
T. tenuissimum Welwitsch & Duby in Duby, Mém. Soc. Phys. Genève 21: 442. pl. 5: f. 2. 1872.
Other use: *Cyrto-hypnum tenuissimum* (Welwitsch & Duby in Duby) W. R. Buck & H. Crum, 1990.
T. vancouveriense Kindberg, Bull. Torrey Bot. Club 17: 277. 1890.
Other use: *Bryolawtonia vancouveriensis* (Kindberg) Norris & Enroth, 1990.
T. varians Welwitsch & Duby in Duby, Mém. Soc. Phys. Genève 21: 440. pl. 5: f. 3. 1872.
Other use: *Cyrto-hypnum varians* (Welwitsch & Duby in Duby) W. R. Buck & H. Crum, 1990.
T. venustulum Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 15: 78. 1892.
Other use: *Cyrto-hypnum venustulum* (Bescherelle) W. R. Buck & H. Crum, 1990.
T. vestitissimum Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 15: 79. 1892.
Other use: *Cyrto-hypnum vestitissimum* (Bescherelle) W. R. Buck & H. Crum, 1990.
*THYRIDIUM Mitten, 1868.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Thyridium* Nitschke, 1867.
Correct name: *Mitthyridium* H. Robinson, 1975.
T. cardotii Fleischer, Musci Buitenzorg 1: 228. f. 34. 1904, "*cardoti*."
Other use: *Mitthyridium fasciculatum* var. *cardotii* (Fleischer) A. Eddy, n.d. [1990].
TORTULA Hedwig, 1801, conserved name.
T. abranchesii Luisier, Bróteria, Sér. Bôt. 14: 115. f. 3. 1916, "*abranchesi*."
Other use: *Syntrichia abranchesii* (Luisier) Ochyra, 1992.
T. ammonsiana H. Crum & L. E. Anderson, Bryologist 82: 469. f. 3–5. 1979.
Other use: *Syntrichia ammonsiana* (H. Crum & L. E. Anderson) Ochyra, 1992.

TORTULA, continued.

*T. **andicola*** Montagne, Ann. Sci. Nat. Bot., sér. 2, 9: 53. 1838.
Other use: *Syntrichia andicola* (Montagne) Ochyra, 1992.

*T. **angustata*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 28. 1859.
Other use: *Chionoloma angustata* (Mitten) Menzel, 1992.

*T. **baetica*** (C. Casas & Oliva) J. Guerra & Ros in J. Guerra, Ros & J. S. Carrión, J. Bryol. 17: 281. 1992. [See Guerra, J., R. M. Ros & J. S. Carrión, 1992.]
Basionym: *Tortula muralis* var. *baetica* C. Casas & Oliva, 1982.

*T. **calcicolens*** W. Kramer, Bryoph. Biblioth. 21: 90. 1980.
Replaced name: *Tortula calcicola* Grebe, 1910 [1909].
Blocking name: *Tortula calcicola* (Hampe) Mitten, 1882.
Other use: *Syntrichia ruralis* subsp. *calcicolens* (W. Kramer) Düll, 1992.

*T. **cavallii*** Negri, Ann. Bot. (Rome) 7: 164. 1908.
Other use: *Syntrichia cavallii* (Negri) Ochyra, 1992.

*T. **crenulata*** Warnstorf, Hedwigia 53: 295. 1913.
Replaced name: *Tortula serrulata* Warnstorf, 1912.
Blocking name: *Tortula serrulata* W. J. Hooker & Greville, 1824.
Other use: *Tortula subulata* var. *crenulata* (Warnstorf) Düll, 1991.

*T. **duriuscula*** Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 27. 1859.
Other use: *Chionoloma duriuscula* (Mitten) Menzel, 1992.

*T. **erythrodonta*** var. ***clavipes*** Fubar.
*incorrectly placed under *Tortula erythrodonta* var. *clavipes* in *Index Muscorum*.
Correct name: *Tayloria erythrodonta* var. *angustifolium* Spruce, 1860.

*T. **ferganensis*** Lazarenko, Ukrajins'k. Bot. Žurn. 4: 64. f. 1–3. 1928.
Other use: *Syntrichia handelii* var. *ferganensis* (Lazarenko) Ochyra, 1992.

*T. **fragilis*** Taylor, London J. Bot. 6: 333. 1847.
Other use: *Syntrichia fragilis* (Taylor) Ochyra, 1992.

*T. **hirsuta*** (Venturi) Lazarenko in Lazarenko et al., Bjull. Moskovsk. Obšč. Isp. Prir., Otd. Biol. 73(2): 146. 1968.
Basionym: *Barbula ruralis* var. *hirsuta* Venturi, 1890.
Note: not in *Index of Mosses, 1963–1989*.

*T. **muralis*** var. ***baetica*** C. Casas & Oliva, Acta Bot. Malacitana 7: 104. f. 2. 1982.
Other use: *Tortula baetica* (C. Casas & Oliva) J. Guerra & Ros in J. Guerra, Ros & J. S. Carrión, 1992.

*T. **papillosissima*** var. ***minor*** Bizot, Rev. Bryol. Lichénol. 23: 268. 1954.
Other use: *Syntrichia virescens* var. *minor* (Bizot) Ochyra, 1992, *Tortula virescens* subsp. *minor* (Bizot) Ochyra, 1988.

*T. **pseudohandelii*** J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 155. 1964.
Other use: *Syntrichia pseudohandelii* (J. Fröhlich) Ochyra, 1992.

*T. **rigescens*** Brotherus & Geheeb, Allg. Bot. Z. Syst. 9: 188. 1903.
Other use: *Syntrichia rigescens* (Brotherus & Geheeb) Ochyra, 1992.

*T. **ruralis*** var. ***gypsophila*** Amann ex G. Roth, Hedwigia 57: 135. pl. 4: f. 7. 1916 [1915].
Other use: *Syntrichia caninervis* var. *gypsophila* (Amann ex G. Roth) Ochyra, 1992.

TORTULA, continued.

*T. **ruralis*** var. ***subpapillosissma*** Bizot & Pierrot in Bizot, Acta Bot. Acad. Sci. Hung. 18: 11. f. 3: 1–2. 1973.
Other use: *Syntrichia ruraliformis* var. *subpapillosissima* (Bizot & Pierrot in Bizot) Ochyra, 1992.

*T. **ruralis*** var. ***virescens*** De Notaris, Mem. Reale Accad. Sci. Torino 40: 290. 1838.
Other use: *Syntrichia virescens* (De Notaris) Ochyra, 1992.

*T. **serrata*** Dixon, New Zealand Inst. Bull. 3(3): 146. pl. 8: f. 3. 1923.
Type: [New Zealand] "Masterton, Wairarapa, North Island, on trees, and among silt at base of cabbage and willow trees." *W. Gray 46*. 1909. Syntype. [New Zealand] "Masterton, Wairarapa, North Island, on trees, and among silt at base of cabbage and willow trees." *W. Gray 78*. Syntype. [New Zealand] "Fendalton, Wairarapa." *R. Brown s.n.* Syntype.
Note: *Index Muscorum*'s treatment of this name as illegitimate is incorrect.

*T. **stanfordensis*** Steere, Bryologist 54: 119. f. 1–9. 1951.
Other use: *Hennediella stanfordensis* (Steere) Blockeel, 1990.

*T. **submontana*** Brotherus, 42(2): 168. 1931.
Other use: *Syntrichia submontana* (Brotherus) Ochyra, 1992.

*T. **subulata*** var. ***crenulata*** (Warnstorf) Düll, Moose Tirols 2: 395. 1991. [See Düll, R., 1991.]
Basionym: *Tortula crenulata* Warnstorf, 1913.

*T. **virescens*** subsp. ***minor*** (Bizot) Ochyra, J. Hattori Bot. Lab. 64: 343. 1988.
Basionym: *Tortula papillosissima* var. *minor* Bizot, 1954.
Note: not in *Index of Mosses, 1963–1989*.

TRACHYBRYUM (Brotherus) Schofield, J. Hattori Bot. Lab. 31: 222. 1968.
Basionym: *Camptothecium* sect. *Trachybryum* Brotherus, 1908.
Original placement: Brachytheciaceae.
Note: not in *Index of Mosses, 1963–1989*.

*T. **megaptilum*** (Sullivant) Schofield, J. Hattori Bot. Lab. 31: 222. 1968.
Basionym: *Camptothecium megaptilum* Sullivant, 1874.
Note: not in *Index of Mosses, 1963–1989*.

TRACHYPHYLLUM Gepp in Hiern, 1901.

T. **inflexum* fo. ***filiforma*** Tixier, Ann. Fac. Sci. Univ. Phnom Penh 4: 145. 1971.
*invalid, no Latin description (Article 36.1).
Note: not in *Index of Mosses, 1963–1989*.

TRACHYPUS Reinwardt & Hornschuch, 1829.

*T. **humilis*** var. ***flagellifer*** (Brotherus in Herzog) H. A. Miller, J. Hattori Bot. Lab. 30: 273. 1967.
Basionym: *Trachypus tenerrimus* var. *flagellifer* Brotherus in Herzog, 1910.
Note: not in *Index of Mosses, 1963–1989*.

*T. **tenerrimus*** var. ***flagellifer*** Brotherus in Herzog, Hedwigia 50: 136. 1910.
Other use: *Trachypus humilis* var. *flagellifer* (Brotherus in Herzog) H. A. Miller, 1967.

TRACHYXIPHIUM W. R. Buck, 1987.

*T. **steerei*** (Griffin) Churchill, Bryologist 94: 47. 1991. [See Churchill, S. P., 1991.]
Basionym: *Hookeriopsis steerei* Griffin, 1986.

TREMATODON Michaux, 1803.

*T. **papuensis*** Norris & T. Koponen, Acta Bot. Fenn. 139: 7. 1990. [See Norris, D. H. & T. Koponen, 1990.]
Type: Papua New Guinea. Morobe, *Kairo s.n.* Holotype: H.

TRICHOSTELEUM Mitten, 1868.
T. sect. ***Papillidiopsis*** Brotherus in Engler & Prantl, Nat. Pflanzenfam. 1(3): 1119. 1908.
Other use: *Papillidiopsis* (Brotherus in Engler & Prantl) W. R. Buck & B. C. Tan, 1989 [1990].
T. aequoreum Fleischer ex Dixon, J. Linn. Soc., Bot. 43: 320. 1916.
Other use: *Radulina aequorea* (Fleischer ex Dixon) W. R. Buck & B. C. Tan, 1989 [1990].
T. elegantissimum Fleischer, Musci Buitenzorg 4: 1326. f. 215. 1923.
Other use: *Radulina elegantissima* (Fleischer) W. R. Buck & B. C. Tan, 1989 [1990].
T. epiphyllum Renauld & Cardot, Rev. Bryol. 23: 106. 1896.
Other use: *Clastobryum epiphyllum* (Renauld & Cardot) B. C. Tan & Touw in B. C. Tan, 1991.
T. intricatum (Thériot) Florschütz-de Waard, Trop. Bryol. 3: 98. 1990. [See Florschütz-de Waard, J., 1990.]
Basionym: *Acroporium intricatum* Thériot, 1934.
T. macrostictum Brotherus & Paris, Bull. Herb. Boissier, sér. 2, 2: 933. 1902.
Other use: *Papillidiopsis macrosticta* (Brotherus & Paris) W. R. Buck & B. C. Tan, 1989 [1990].
T. pendulum (Zanten) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 8. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Warburgiella pendula* Zanten, 1964.
****T. perlongifolium*** Fubar.
*incorrectly placed under *Trichosteleum* in *Index of Mosses, 1963–1989.*
Correct name: *Trichostomum perlongifolium* J. Fröhlich, 1962 [1963].
T. ruficaule (Thwaites & Mitten) B. C. Tan, J. Hattori Bot. Lab. 70: 101. 1991. [See Tan, B. C., 1991.]
Basionym: *Sematophyllum ruficaule* Thwaites & Mitten, 1873.
T. scabrifolium (Brotherus in H. A. Möller) W. R. Buck & B. C. Tan, Acta Bryolichenol. Asiat. 1: 8. 1989 [1990]. [See Buck, W. R. & B. C. Tan, 1989 [1990].]
Basionym: *Acanthocladium scabrifolium* Brotherus in H. A. Möller, 1919.
T. serrulatum (Brotherus) B. C. Tan, J. Hattori Bot. Lab. 70: 103. 1991. [See Tan, B. C., 1991.]
Basionym: *Clastobryophilum serrulatum* Brotherus, 1928.
TRICHOSTOMUM Bruch, 1829, conserved name.
****T. bartramii*** Iwatsuki & B. C. Tan, Misc. Bryol. Lichenol. 7: 152. 1977.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichostomum bartramii* H. A. Miller, 1967.
Replaced name: *Trichostomum brevifolium* E. B. Bartram, 1958 [1959].
Blocking name: *Trichostomum brevifolium* Sendtner ex C. Müller, 1849.
Correct name: *Trichostomum philippinense* Iwatsuki & B. C. Tan, 1979.
Note: updated entry for *Index of Mosses, 1963–1989.*
T. bartramii H. A. Miller, J. Hattori Bot. Lab. 30: 272. 1967.
Replaced name: *Trichostomum mauiense* Brotherus, 1927.
Blocking name: *Trichostomum mauiense* (C. Müller) Brotherus, 1902.
Note: not in *Index of Mosses, 1963–1989.*

TRICHOSTOMUM, continued.

*_T. brevifolium_ E. B. Bartram, Philipp. J. Sci. 87: 277. 1958 [1959].

*illegitimate, later homonym (Article 64.1).

Earlier name: _Trichostomum brevifolium_ Sendtner ex C. Müller, 1849.

Correct name: _Trichostomum philippinense_ Iwatsuki & B. C. Tan, 1979.

Note: updated entry for _Index of Mosses, 1963–1989_.

*_T. mauiense_ Brotherus, Bernice P. Bishop Mus. Bull. 40: 12. pl. 3, f. 12. 1927.

*illegitimate, later homonym (Article 64.1).

Earlier name: _Trichostomum mauiense_ (C. Müller) Brotherus, 1902.

Correct name: _Trichostomum bartramii_ H. A. Miller, 1967.

T. perlongifolium J. Fröhlich, Rev. Bryol. Lichénol. 31: 92. 1962 [1963].

Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Bukit Ampuan, 3,000–4,000 feet, _Meijer s.n._ 1959. Herbarium not indicated.

Note: incorrectly placed under _Trichosteleum_ in _Index of Mosses, 1963–1989_.

T. philippinense Iwatsuki & B. C. Tan, Kalikasan 8: 195. 1979.

Replaced name: _Trichostomum bartramii_ Iwatsuki & B. C. Tan, 1977.

Blocking name: _Trichostomum bartramii_ H. A. Miller, 1967.

Note: updated entry for _Index of Mosses, 1963–1989_.

T. siamense Brotherus in Hosseus, Beih. Bot. Centralbl. 28: 362. 1911.

Type: Thailand. Doi Sutäp, 1,660–1,675 m, _C. C. Hosseus s.n._ Herbarium not specified by author.

Note: not in _Index Muscorum_.

†TRILETES Reinsch, 1881.

†_T. australis_ Cookson, 2(8): 136. pl. 15: f. 58–59. 1947.

Other use: _Sphagnum australe_ (Cookson) Frederiksen, 1980.

TRISTICHELLA Dixon, 1932.

T. dimorpha Stone, J. Bryol. 14: 691. f. 1–3. 1987.

Other use: _Clastobryum dimorphum_ (Stone) B. C. Tan & Iwatsuki, 1992.

T. glabrescens Iwatsuki, Bull. Natl. Sci. Mus., Ser. B, Bot. 3: 17. f. 2–3. 1977.

Other use: _Clastobryum glabrescens_ (Iwatsuki) B. C. Tan & Iwatsuki, 1992.

T. spiculifera Dixon, Ann. Bryol. 5: 44. 1932.

Other use: _Clastobryum spiculiferum_ (Dixon) B. C. Tan & Iwatsuki, 1992.

†VILEDIA Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 163. 1990. [See Ignatov, M. S., 1990.]

Type: _V. minuta_ Ignatov, holotype.

Original placement: perhaps Dicranales.

†_V. minuta_ Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 163. f. 12; pl. 4: f. 52–53. 1990. [See Ignatov, M. S., 1990.]

Type: Russia. Archangelsk: Vilegodsk District, well 06. drilled by 14th expedition of the Aerogeologiya Trust, Tatarian stage of the Upper Permian, _Stepanenko s.n._ 3774/3B-4-15. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

†**VORCUTANNULARIA** Pogorevitsch ex Neuberg, 1960.

†***V. minima*** Ignatov, Palaeontographica. Abt. B. Paläophytol. 217: 179. f. 26; pl. 9: f. 110–119. 1990. [See Ignatov, M. S., 1990.]
Type: Russia. Vologda: Veliky Ustug District, right bank of the Malaya Northern Dvina River, 100 m upstream of the Aristovo pier, Tatarian stage of the Upper Permian, *Gomankov, Agnatiev & Meyen 4552/322-10-8*. Holotype: Geology Institute of the U.S.S.R. Academy of Sciences, Moscow.

WARBURGIELLA C. Müller ex Brotherus, 1900.

W. laticuspis Dixon, J. Linn. Soc., Bot. 50: 123. pl. 3: f. 33. 1935.
Other use: *Sematophyllum laticuspis* (Dixon) W. R. Buck & B. C. Tan, 1989 [1990].

W. pendula Zanten, Nova Guinea, Bot. 10(16): 333. pl. 30: f. 2. 1964.
Other use: *Trichosteleum pendulum* (Zanten) W. R. Buck & B. C. Tan, 1989 [1990].

WARNSTORFIA Loeske, 1907.

W. fluitans var. ***berggrenii*** (C. E. O. Jensen) Ochyra, Fragm. Florist. Geobot. 37: 213. 1992. [See Ochyra, R., 1992.]
Basionym: *Harpidium fluitans* subsp. *berggrenii* C. E. O. Jensen, 1887.

***WEBERA** Hedwig, 1801.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Webera* Schreber, 1791.

W. caespitosa Hoppe & Hornschuch, Flora 2: 102. 1819.
Other use: *Pohlia caespitosa* (Hoppe & Hornschuch) Lazarenko in Lazarenko et al., 1971.

WEISSIA Hedwig, 1801.

W. affinis W. J. Hooker & Taylor, Muscol. Brit. 44. 14. 1818.
Other use: *Pottia affinis* (W. J. Hooker & Taylor) Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, 1991.

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Original placement: Pottiaceae.

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